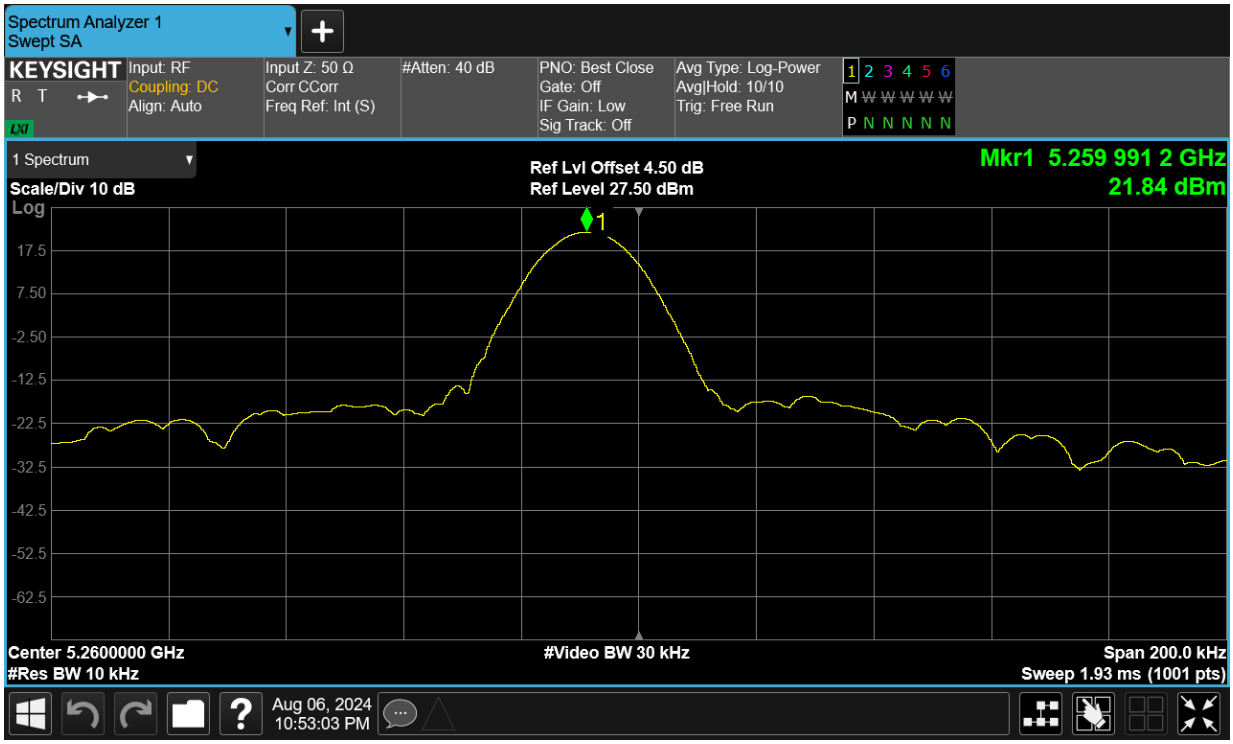
Test Data

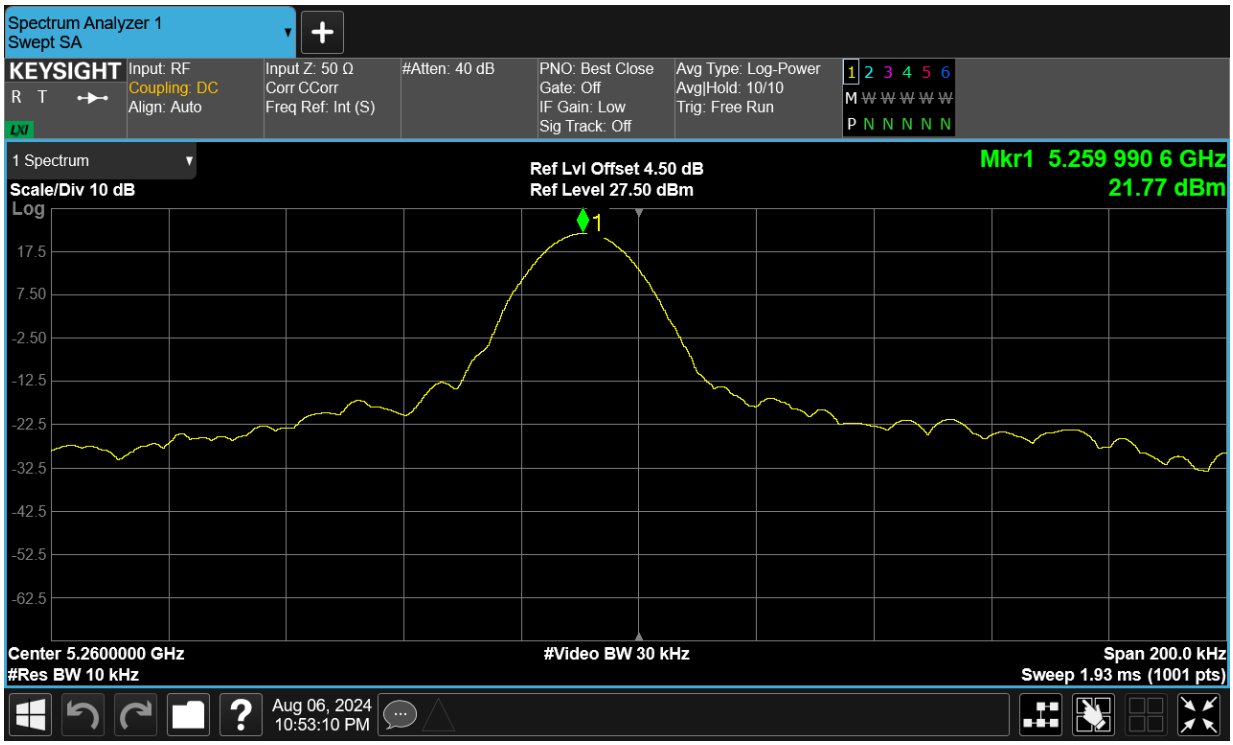
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
LVLT	a	5260	Ant1	5259.9912	-1.67	Within authorized band	Pass
LVNT	a	5260	Ant1	5259.9906	-1.79		Pass
NVHT	a	5260	Ant1	5259.9918	-1.56		Pass
NVLT	a	5260	Ant1	5259.993	-1.33		Pass
NVNT	a	5260	Ant1	5259.9902	-1.86		Pass
LVLT	ac80	5290	Ant1	5289.9922	-1.47		Pass
LVNT	ac80	5290	Ant1	5289.9914	-1.63		Pass
NVHT	ac80	5290	Ant1	5289.9928	-1.36		Pass
NVLT	ac80	5290	Ant1	5289.9936	-1.21		Pass
NVNT	ac80	5290	Ant1	5289.9956	-0.83		Pass
LVLT	n40	5270	Ant1	5269.9886	-2.16		Pass
LVNT	n40	5270	Ant1	5269.9884	-2.2		Pass
NVHT	n40	5270	Ant1	5269.989	-2.09		Pass
NVLT	n40	5270	Ant1	5269.9892	-2.05		Pass
NVNT	n40	5270	Ant1	5269.9898	-1.94		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

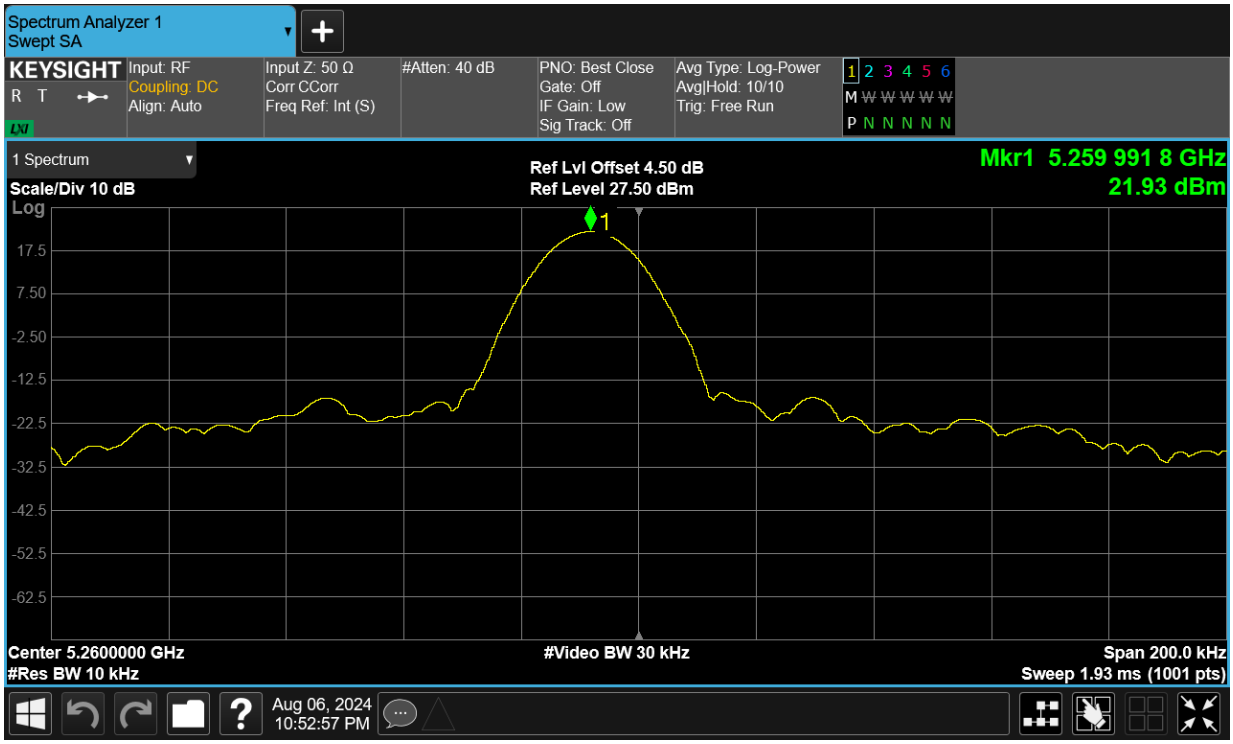
Test Graphs
Freq. Stability LVLT a 5260MHz Ant1



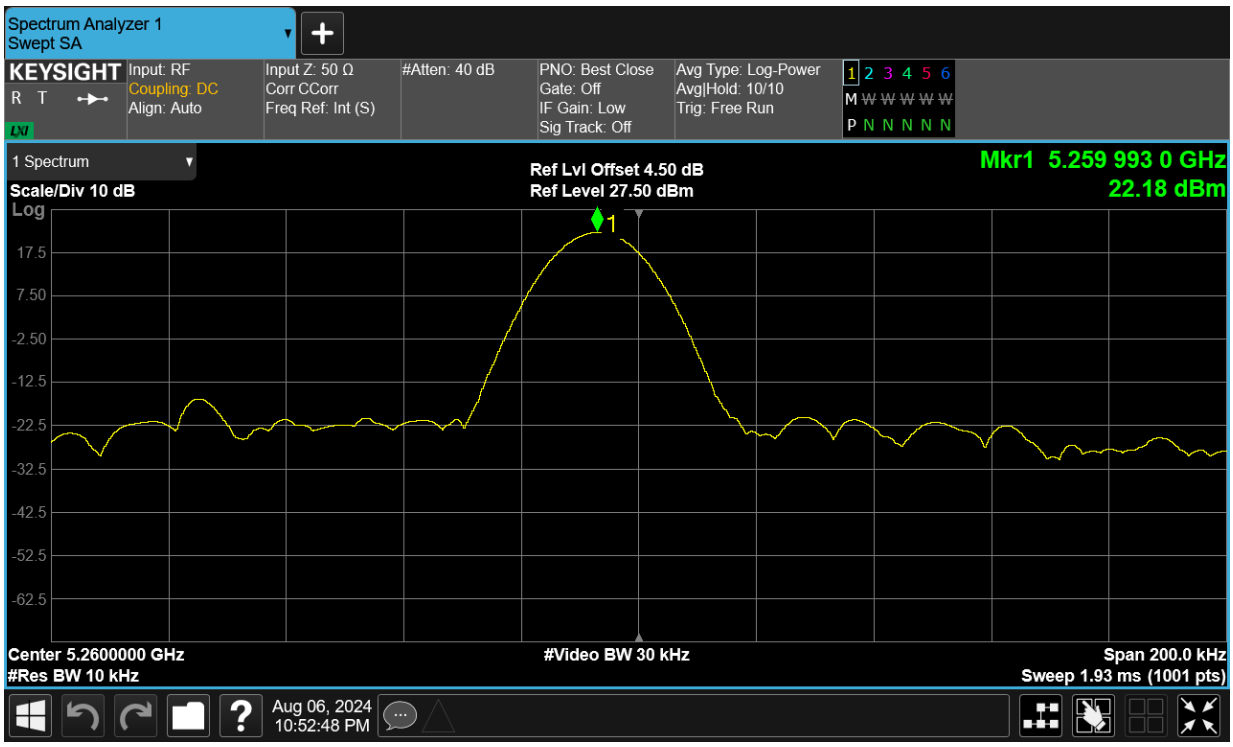
Freq. Stability LVNT a 5260MHz Ant1



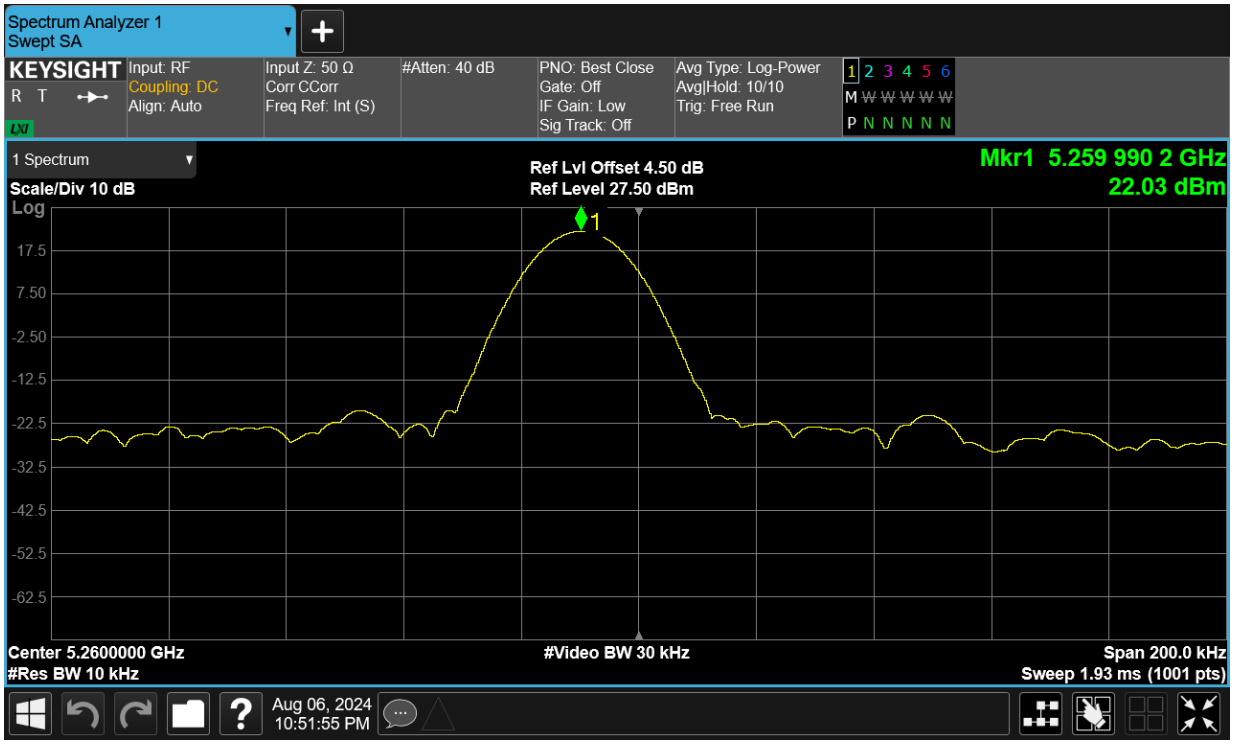
Freq. Stability NVHT a 5260MHz Ant1



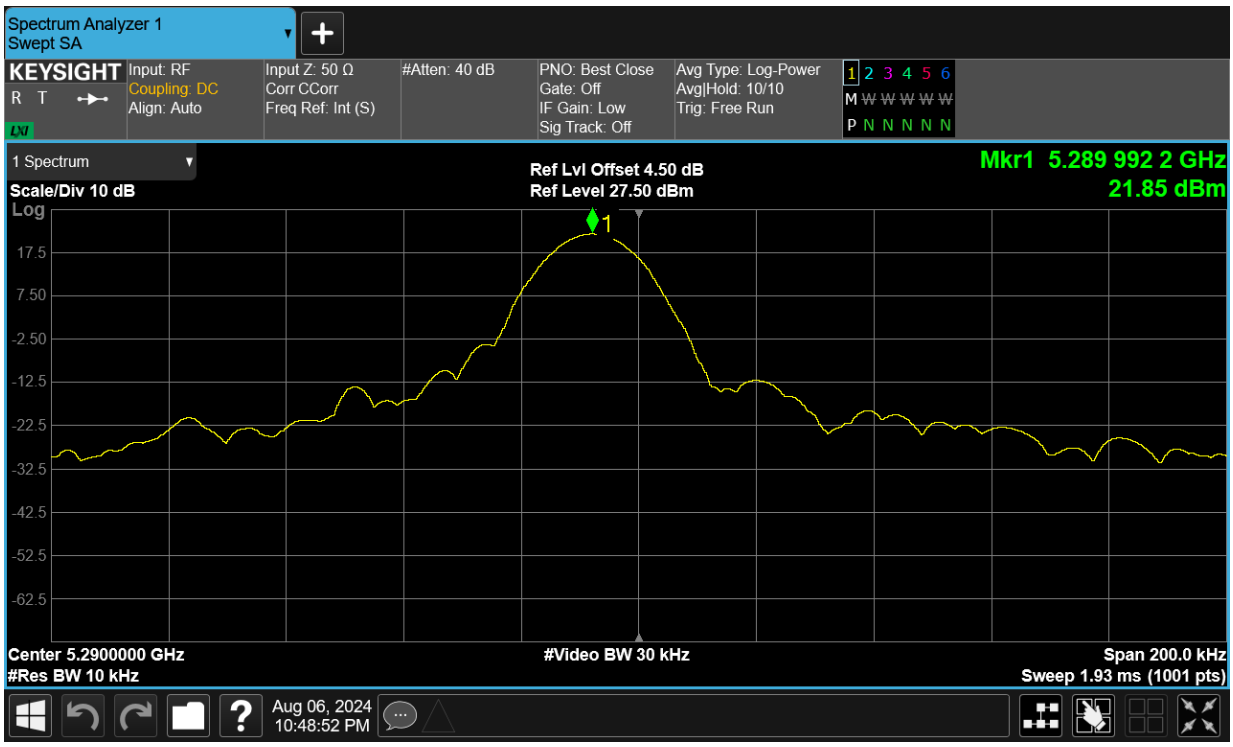
Freq. Stability NVLT a 5260MHz Ant1



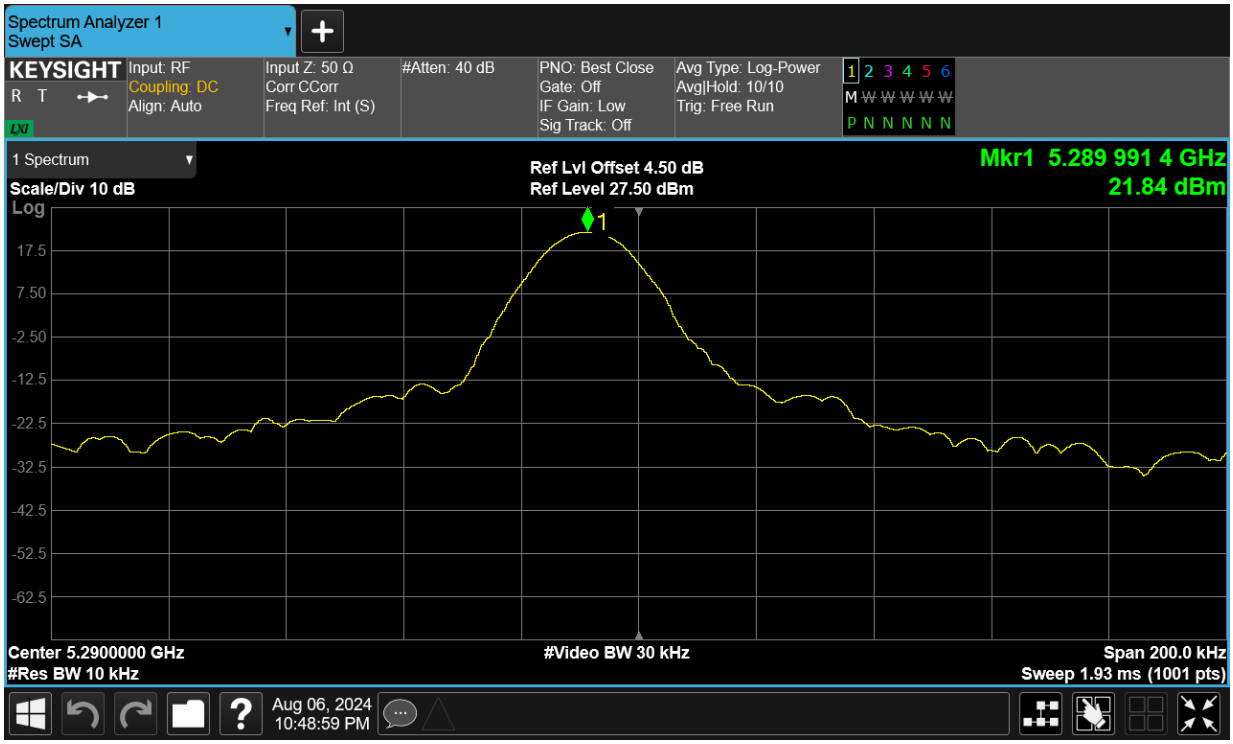
Freq. Stability NVNT a 5260MHz Ant1



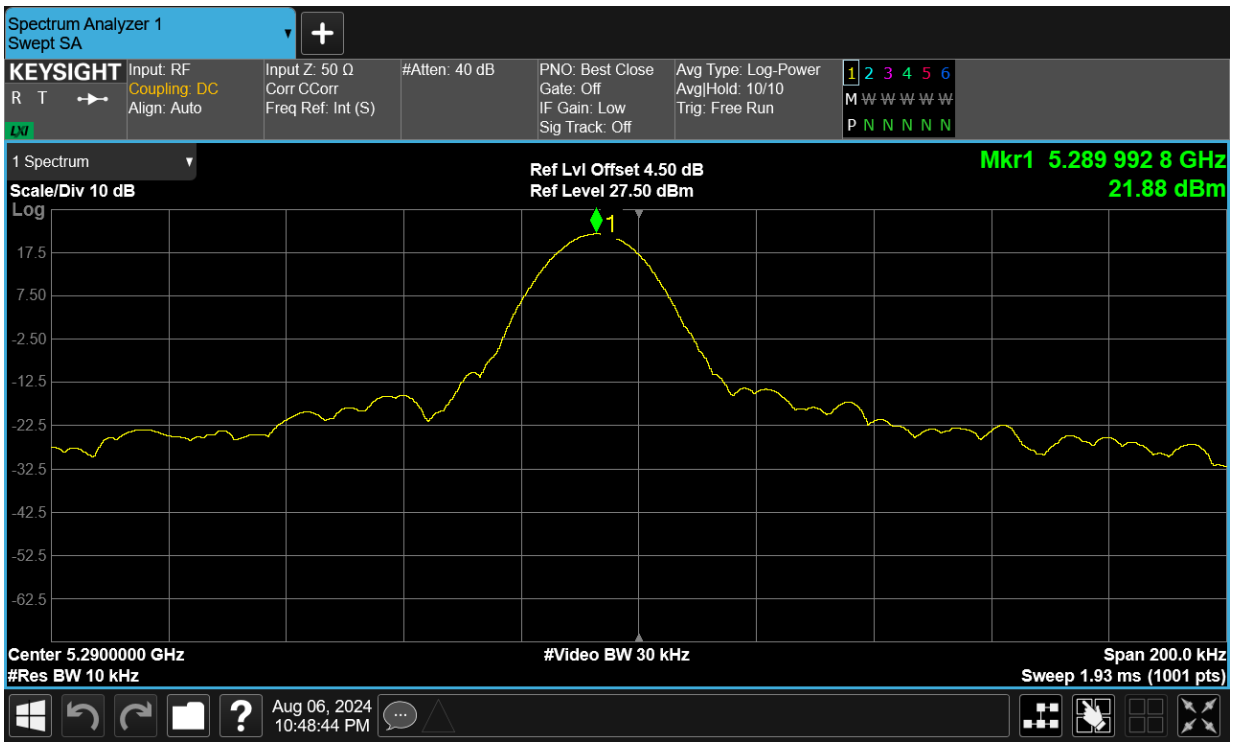
Freq. Stability LVLT ac80 5290MHz Ant1



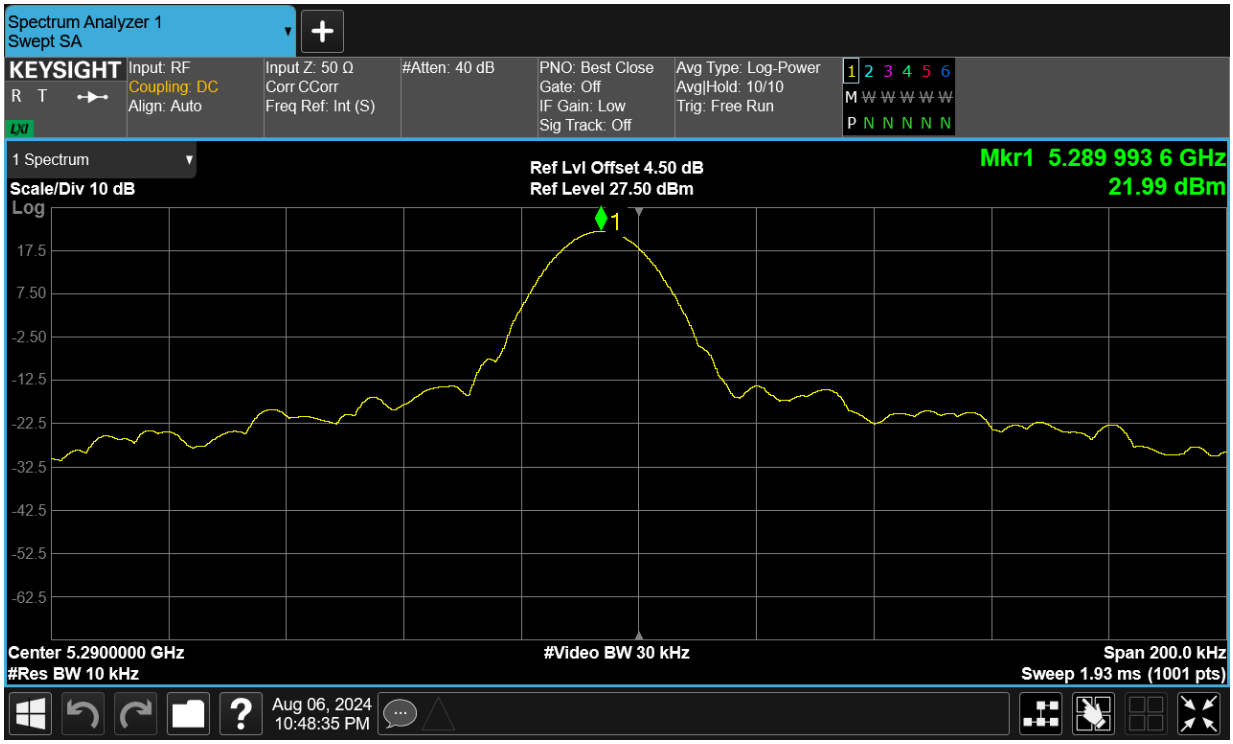
Freq. Stability LVNT ac80 5290MHz Ant1



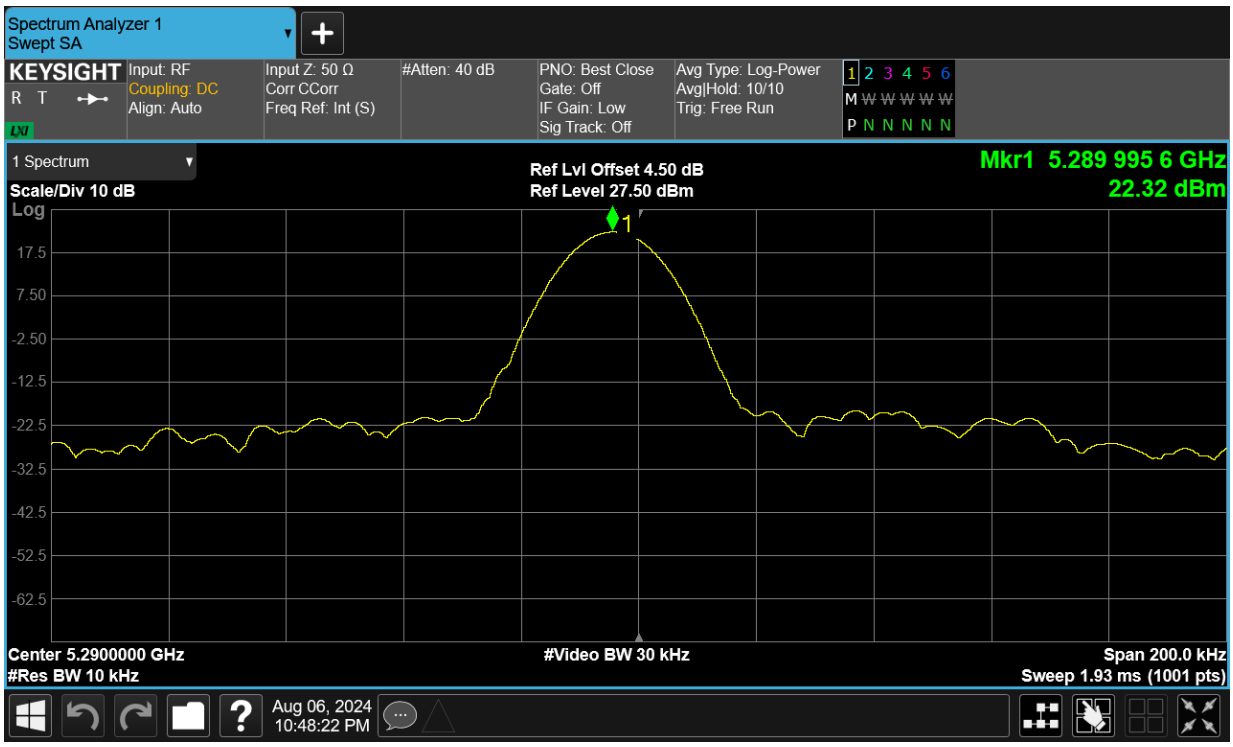
Freq. Stability NVHT ac80 5290MHz Ant1



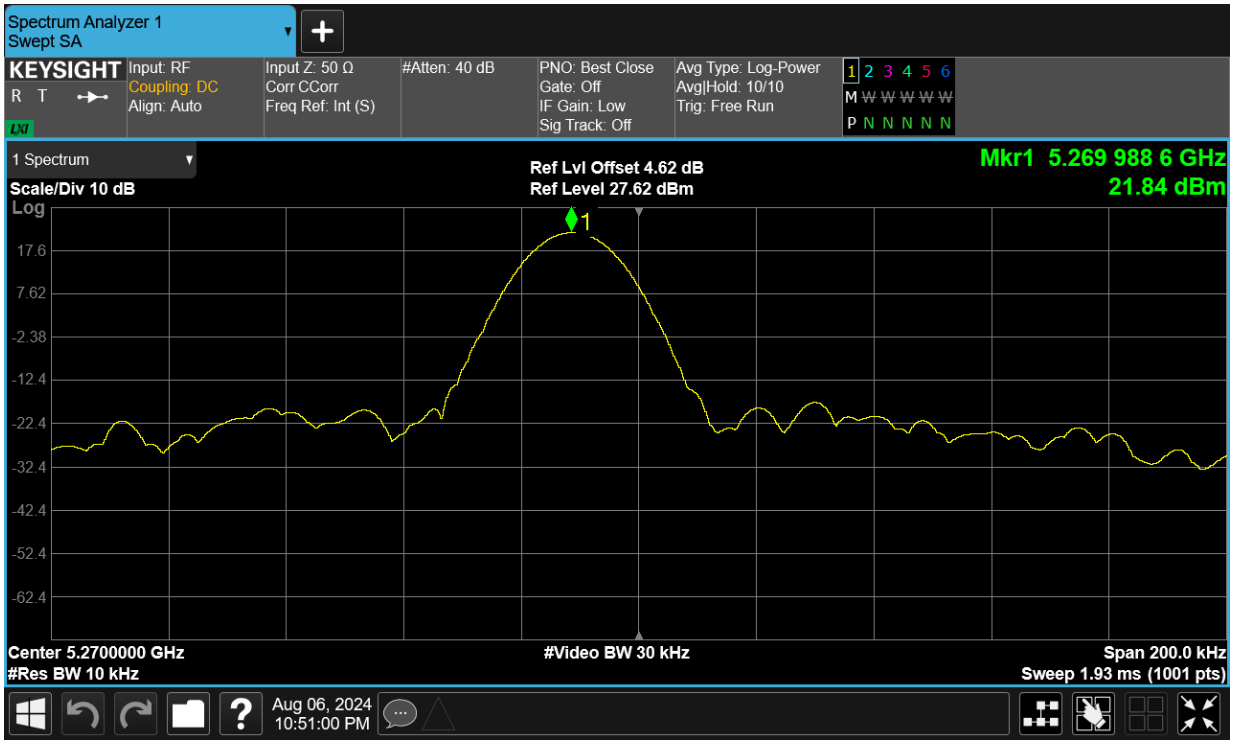
Freq. Stability NVLT ac80 5290MHz Ant1



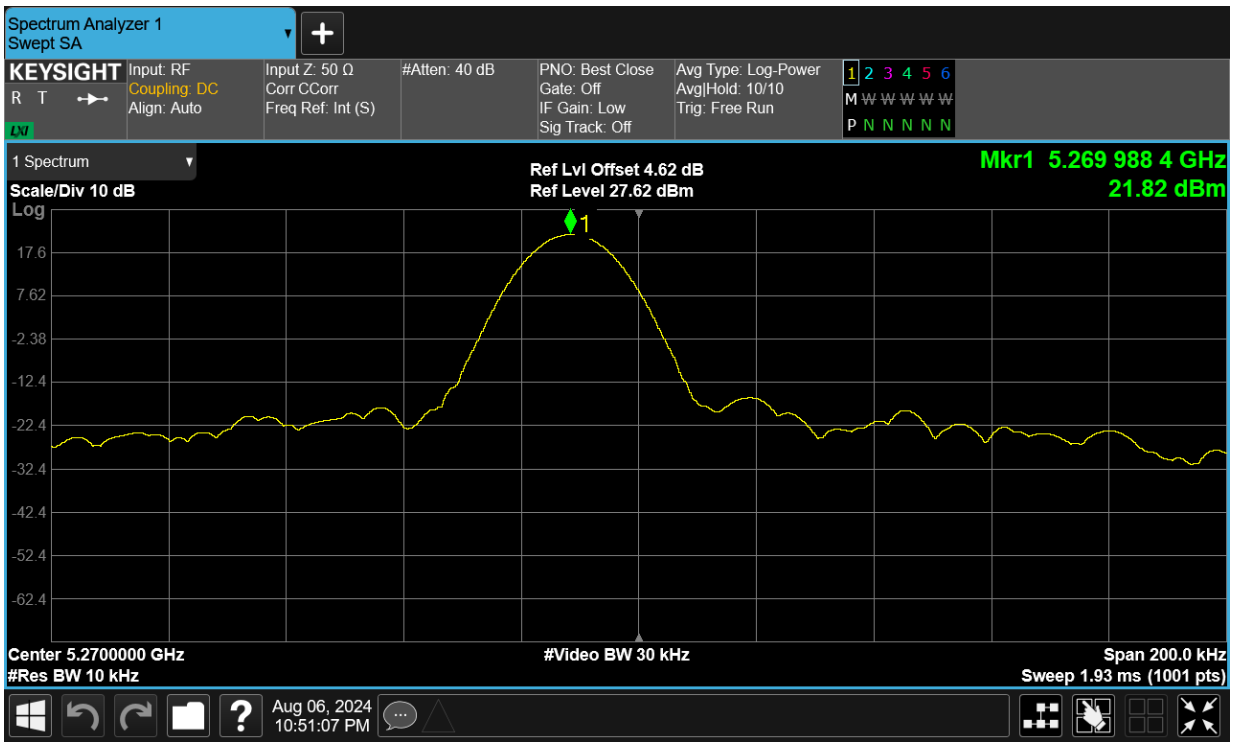
Freq. Stability NVNT ac80 5290MHz Ant1



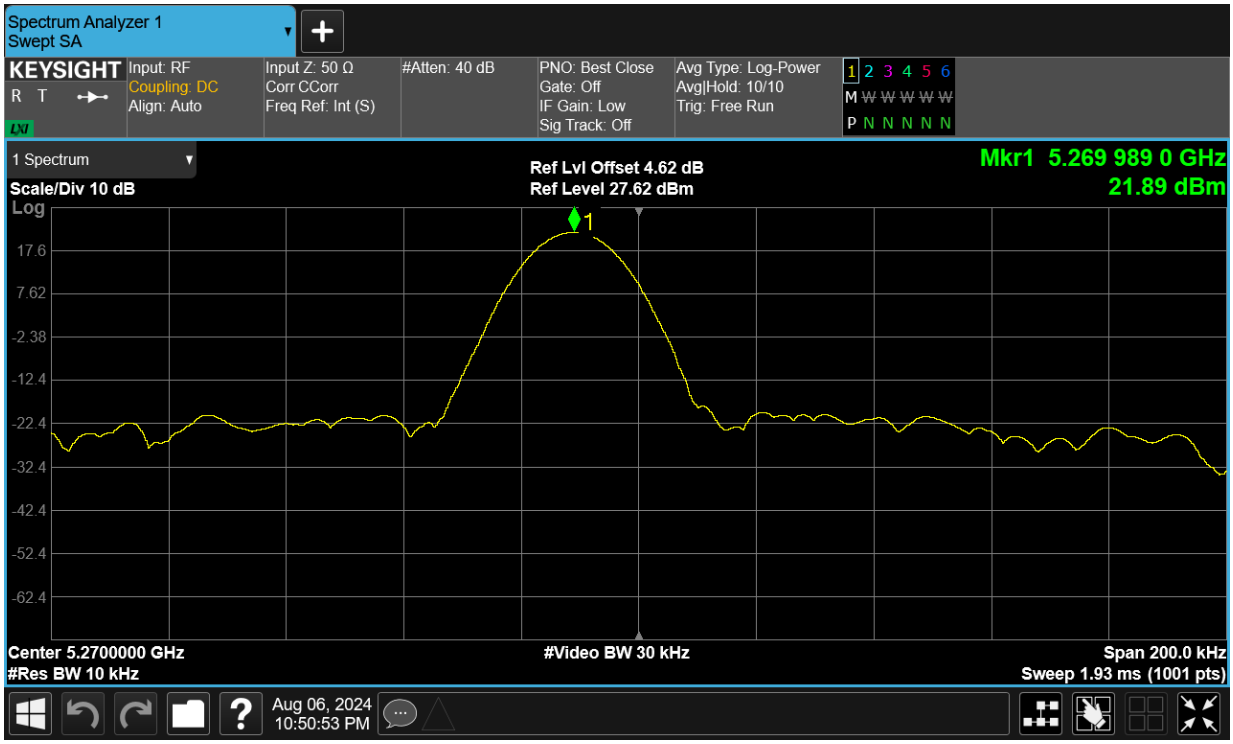
Freq. Stability LVLT n40 5270MHz Ant1



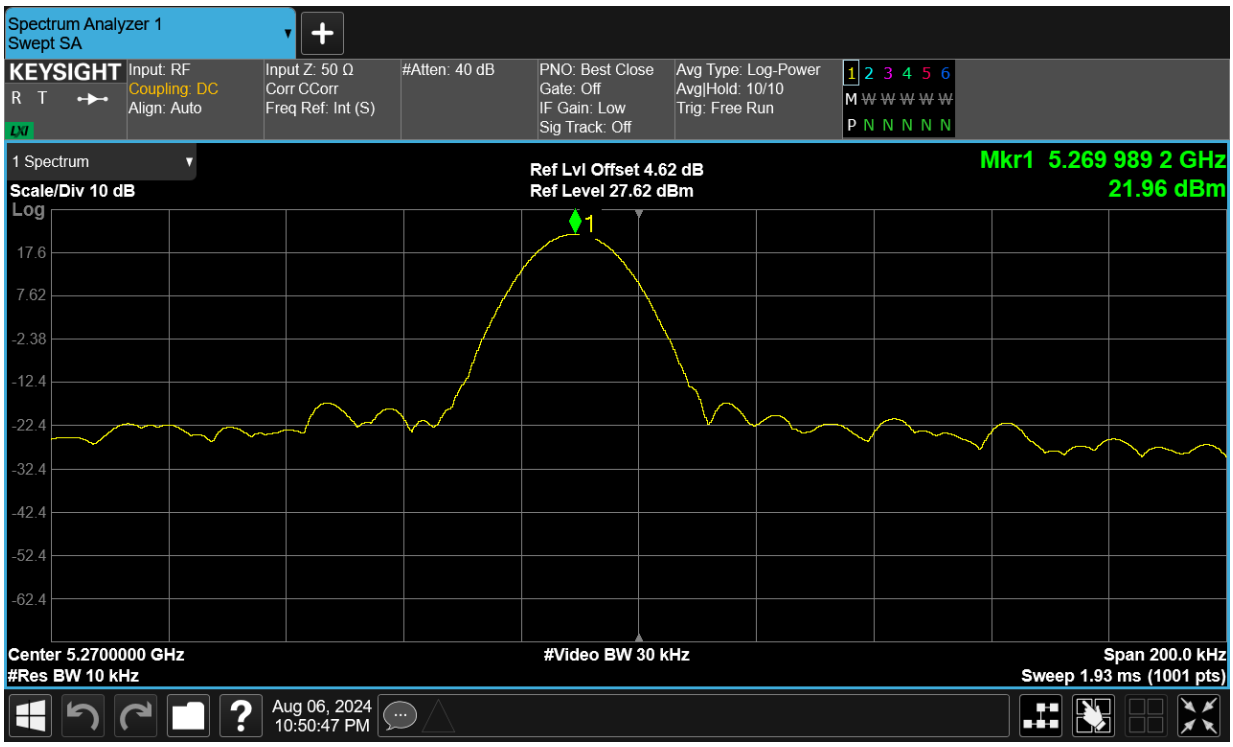
Freq. Stability LVNT n40 5270MHz Ant1



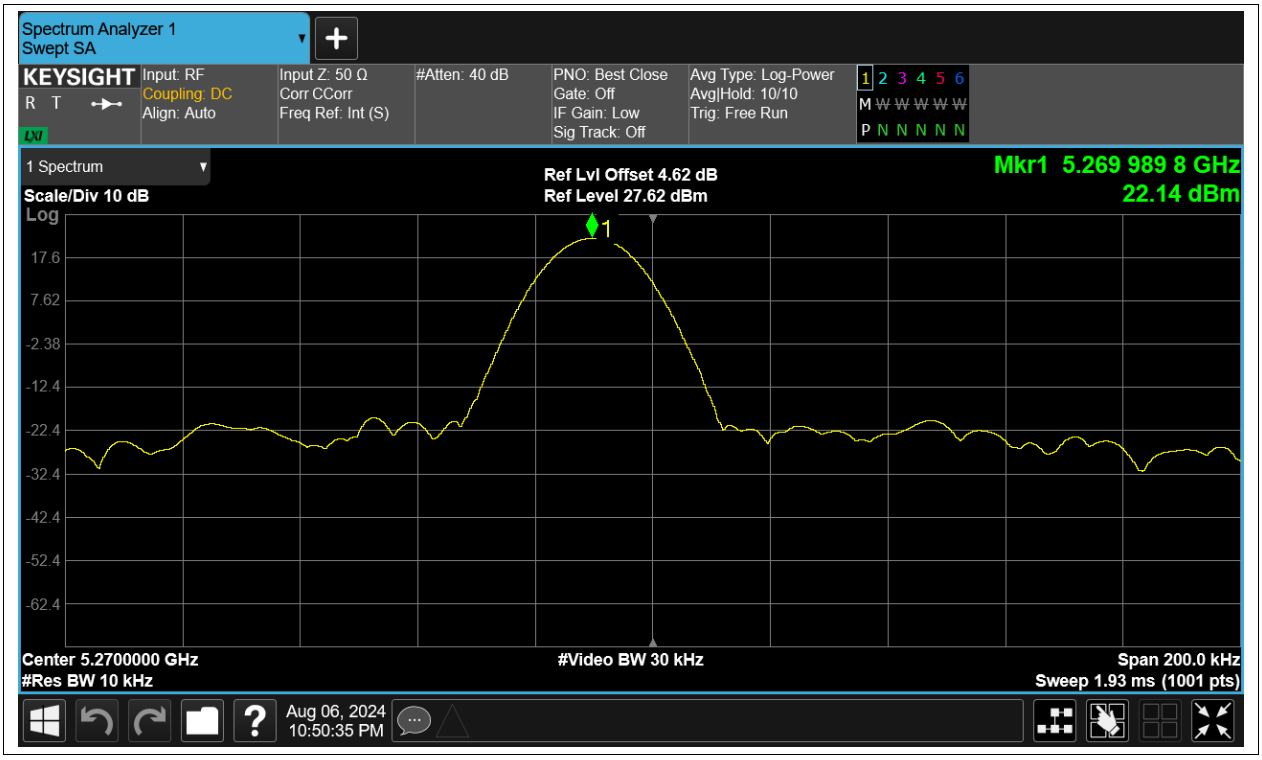
Freq. Stability NVHT n40 5270MHz Ant1



Freq. Stability NVLT n40 5270MHz Ant1



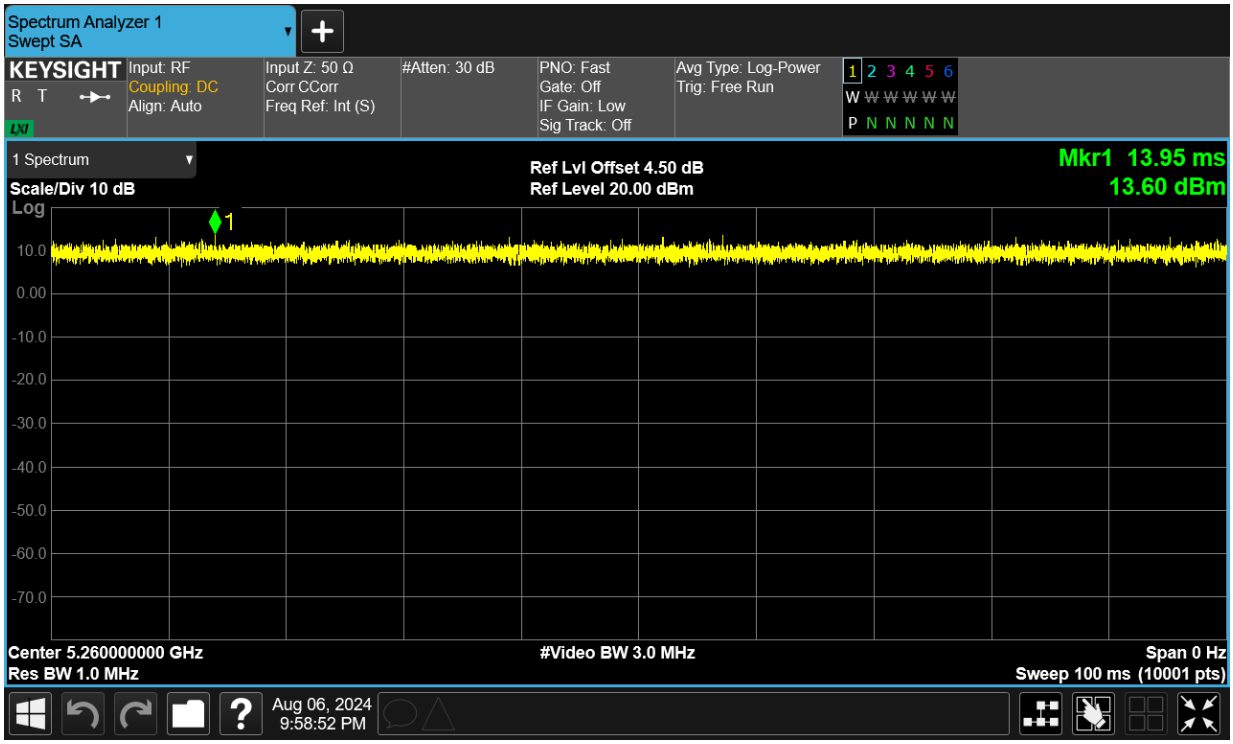
Freq. Stability NVNT n40 5270MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Close
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.62 dB
Ref Level 27.62 dBm
Mkr1 5.269 989 8 GHz
22.14 dBm
Log
17.6
7.62
-2.38
-12.4
-22.4
-32.4
-42.4
-52.4
-62.4
Center 5.2700000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 200.0 kHz
Sweep 1.93 ms (1001 pts)
Aug 06, 2024
10:50:35 PM

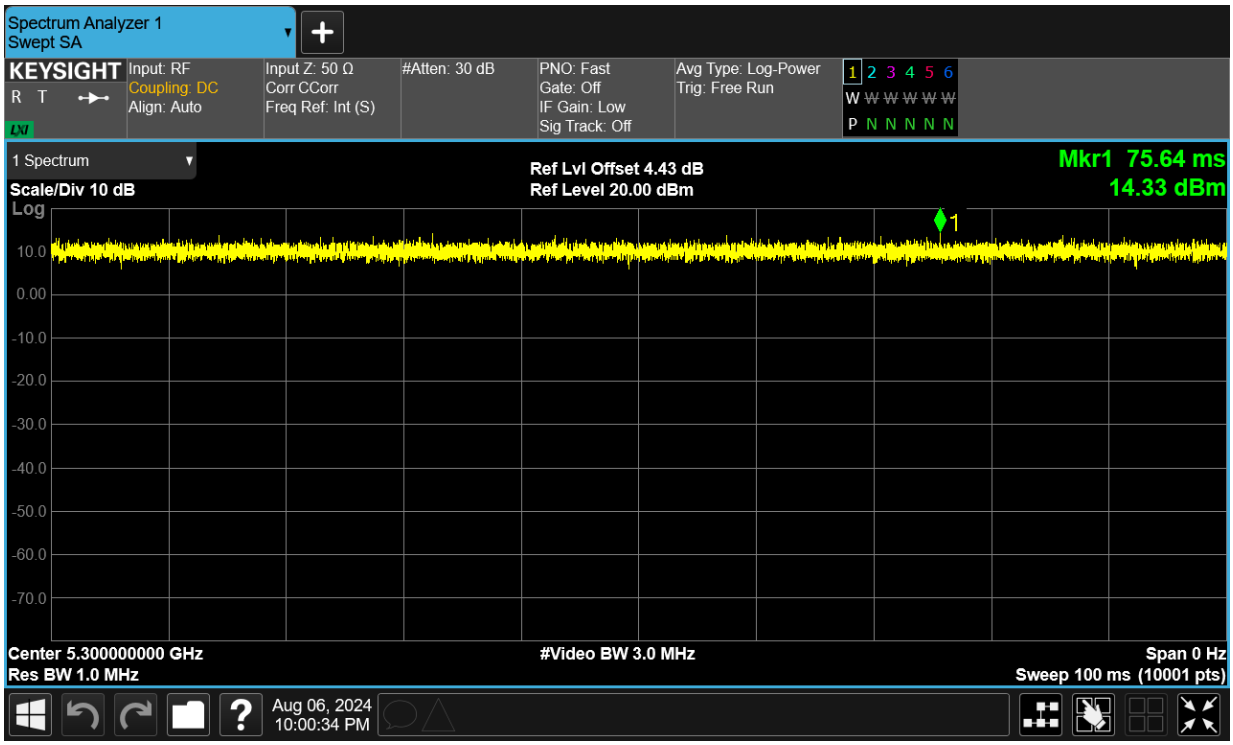
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	100	0
NVNT	a	5300	Ant1	100	0
NVNT	a	5320	Ant1	100	0
NVNT	ac20	5260	Ant1	100	0
NVNT	ac20	5300	Ant1	100	0
NVNT	ac20	5320	Ant1	100	0
NVNT	ac40	5270	Ant1	100	0
NVNT	ac40	5310	Ant1	100	0
NVNT	ac80	5290	Ant1	100	0
NVNT	n20	5260	Ant1	100	0
NVNT	n20	5300	Ant1	100	0
NVNT	n20	5320	Ant1	100	0
NVNT	n40	5270	Ant1	100	0
NVNT	n40	5310	Ant1	100	0

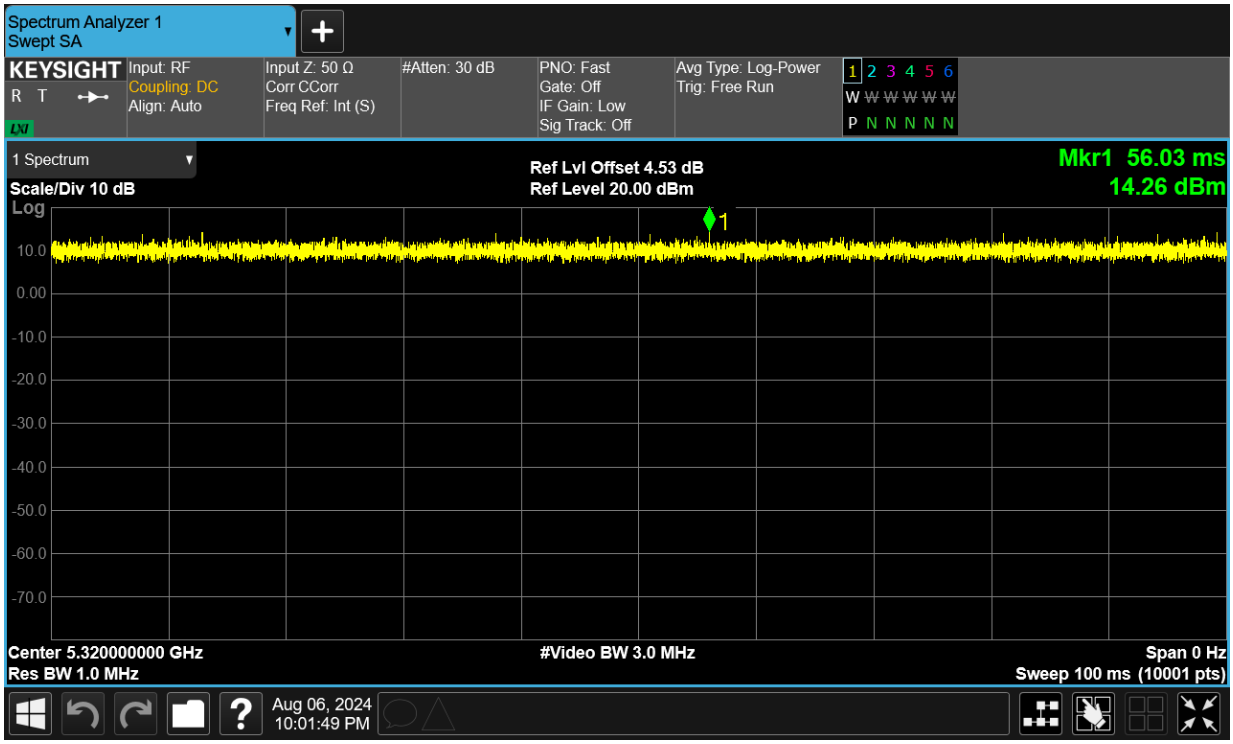
Test Graphs
Duty Cycle NVNT a 5260MHz Ant1



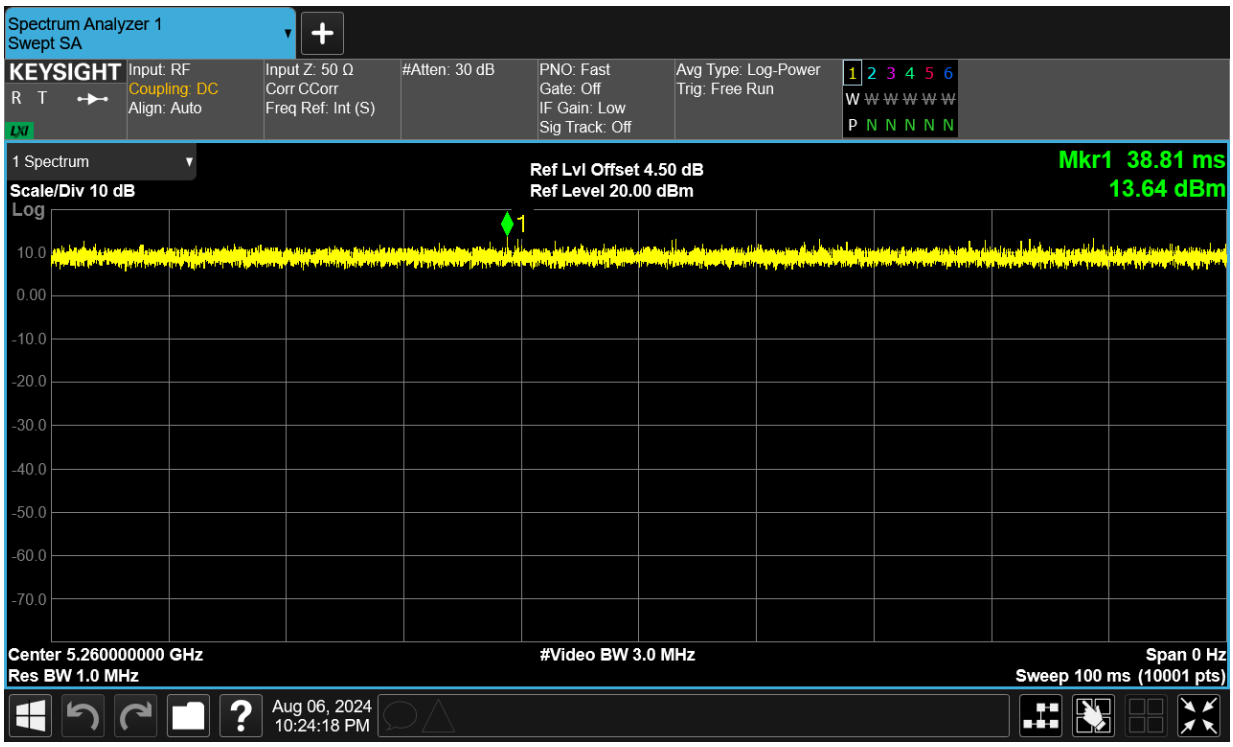
Duty Cycle NVNT a 5300MHz Ant1



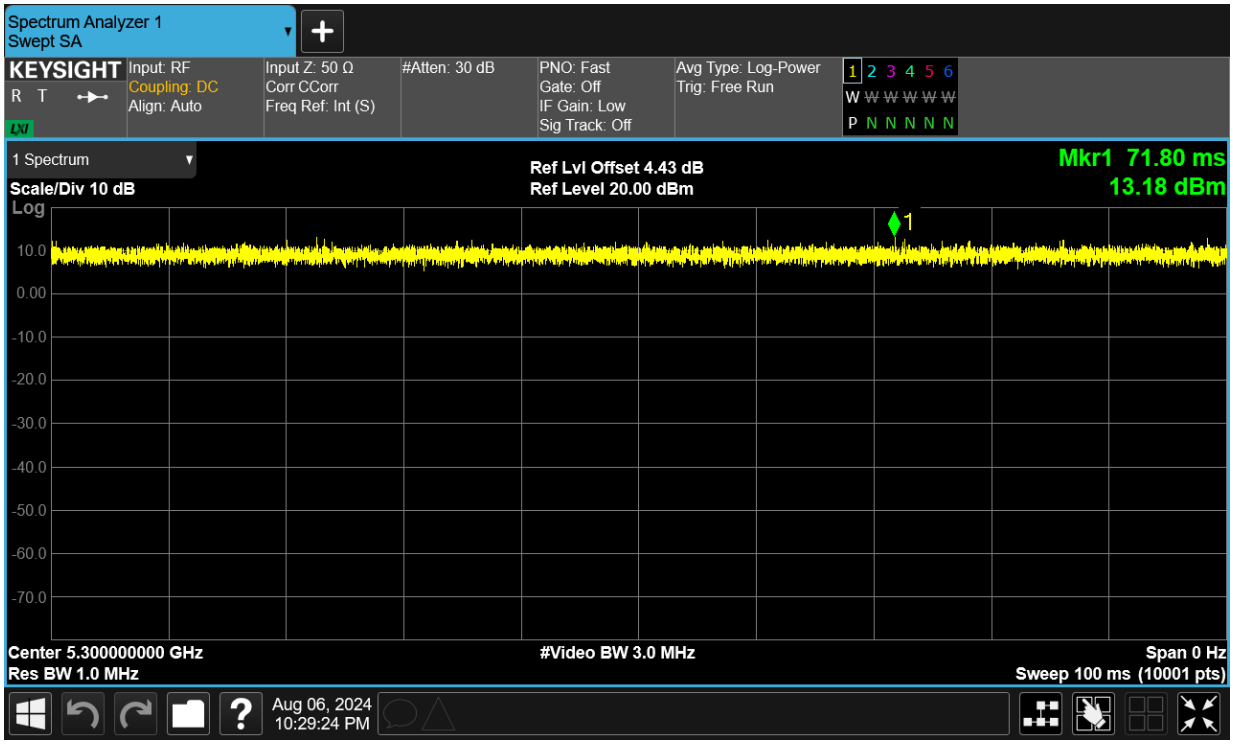
Duty Cycle NVNT a 5320MHz Ant1



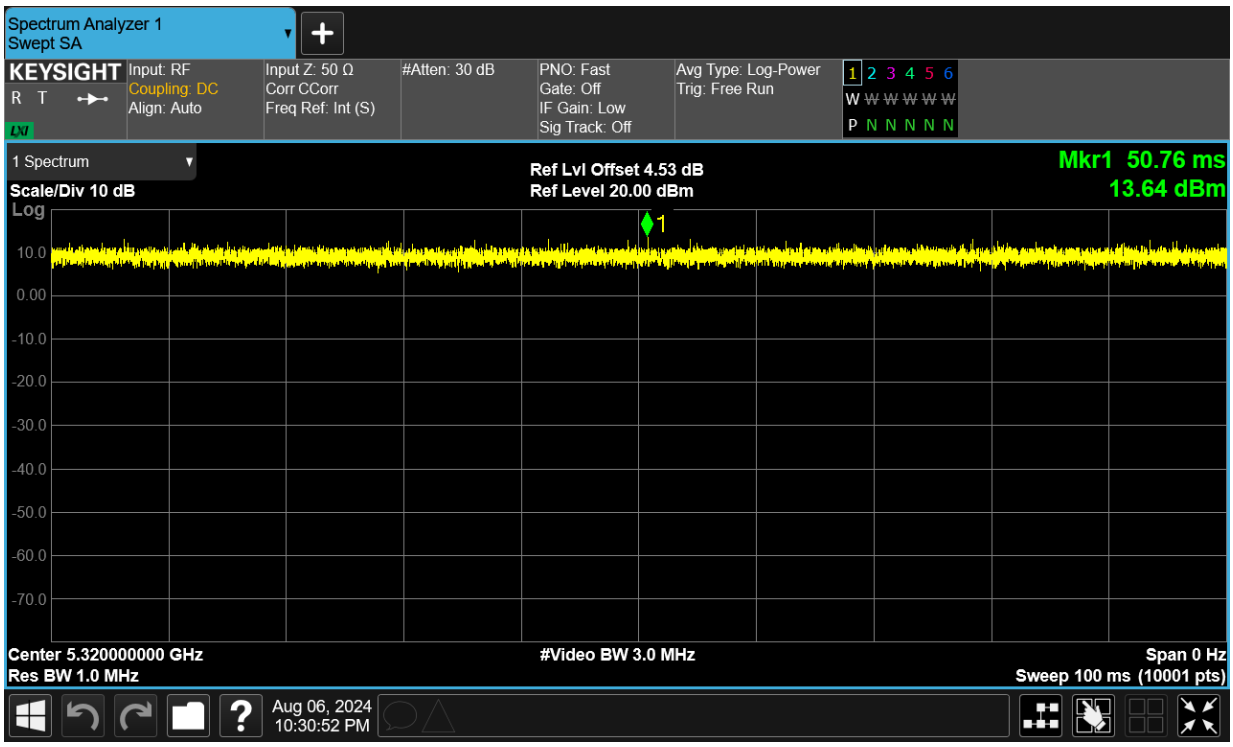
Duty Cycle NVNT ac20 5260MHz Ant1



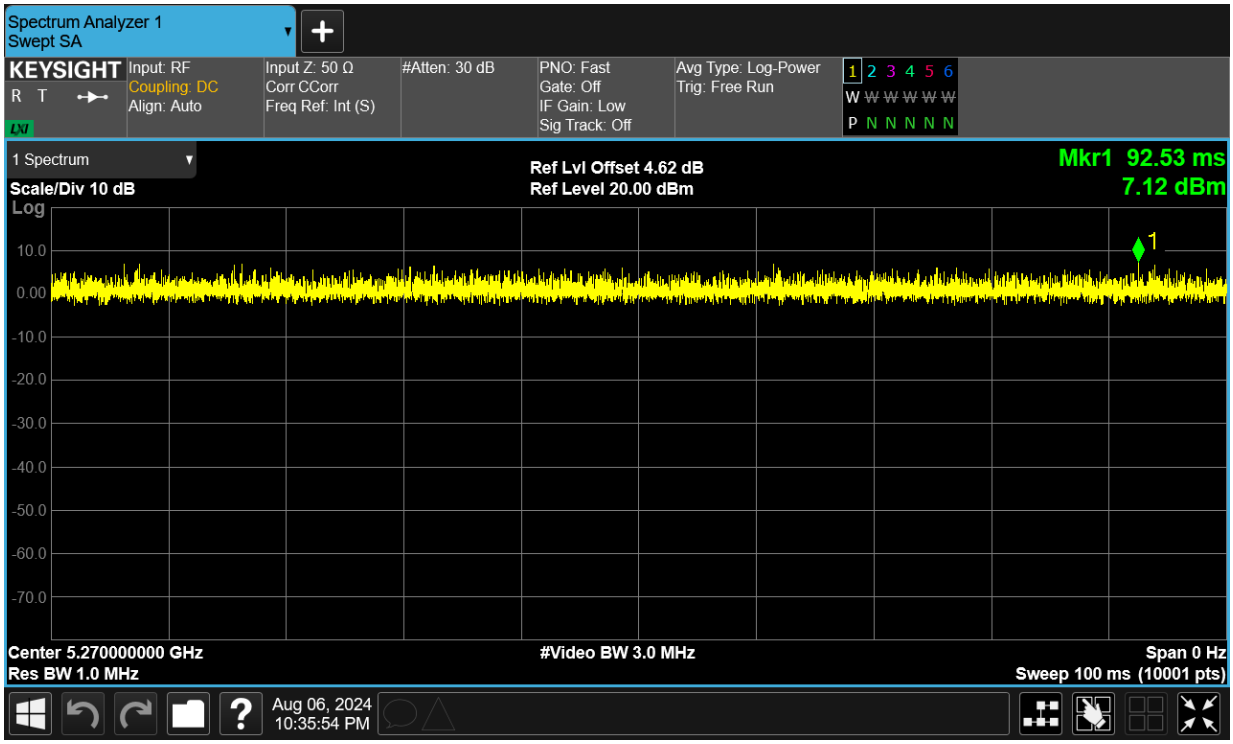
Duty Cycle NVNT ac20 5300MHz Ant1



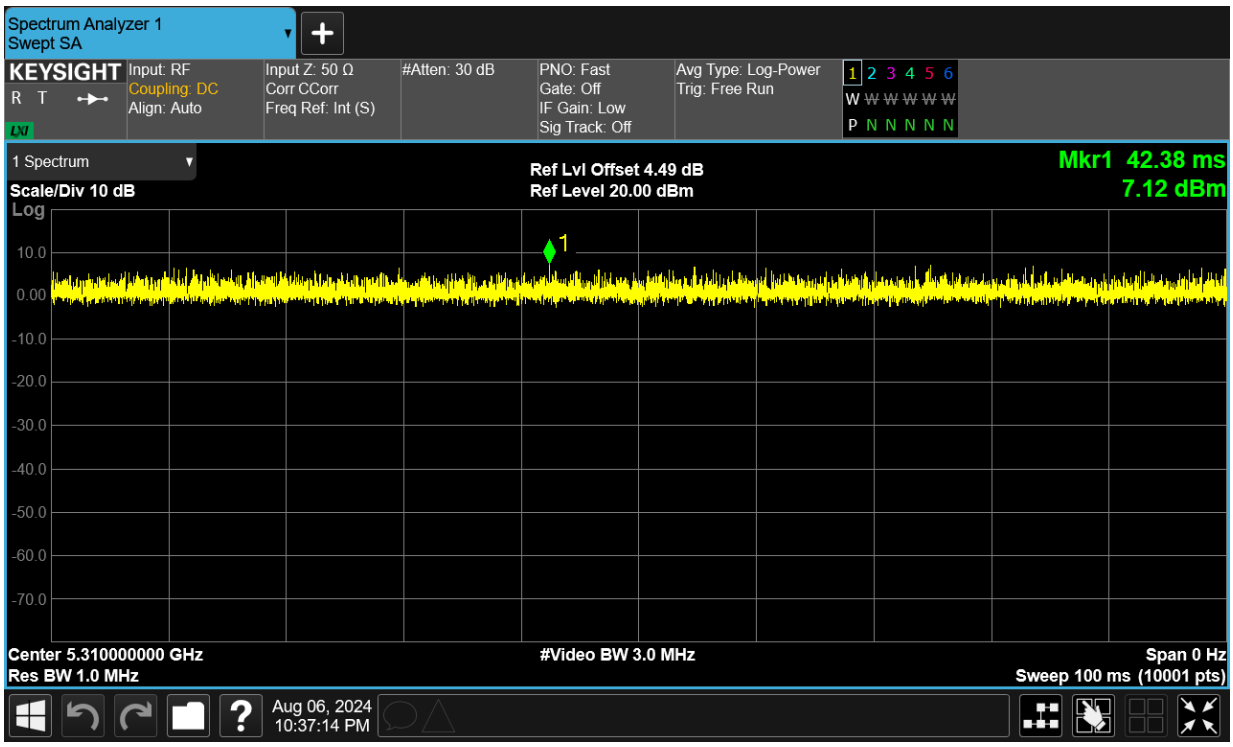
Duty Cycle NVNT ac20 5320MHz Ant1



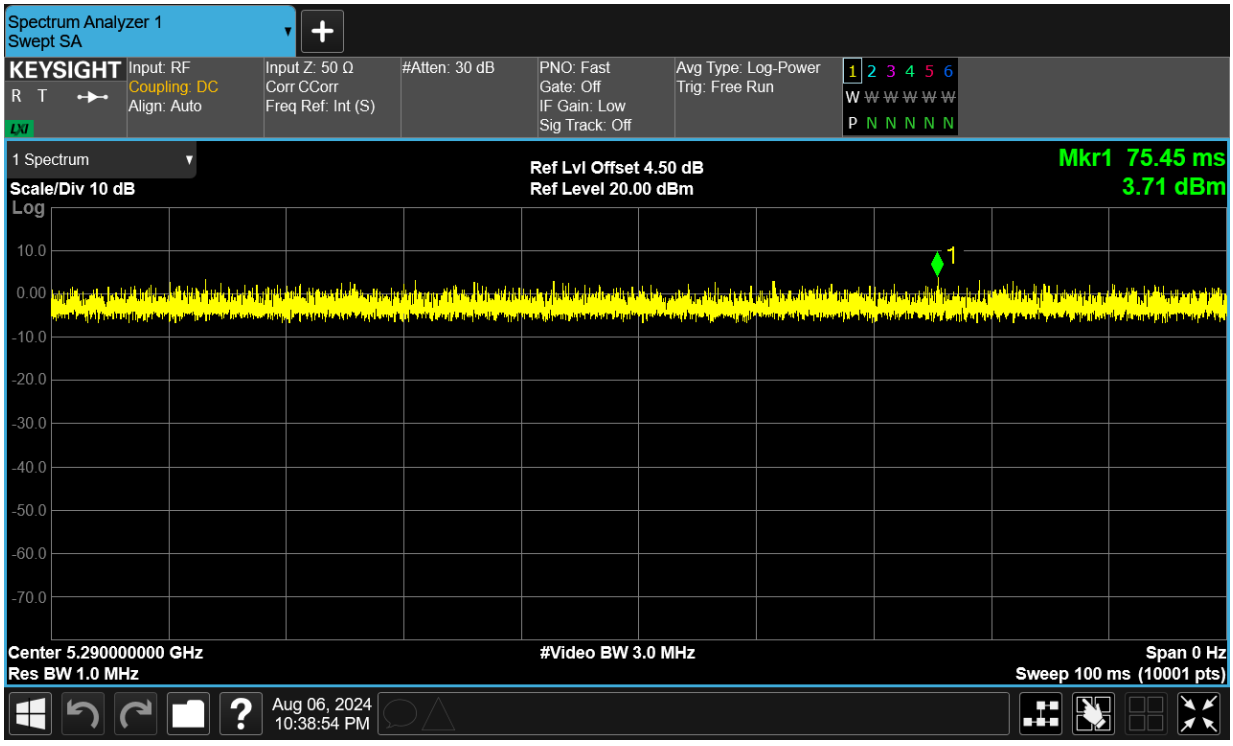
Duty Cycle NVNT ac40 5270MHz Ant1



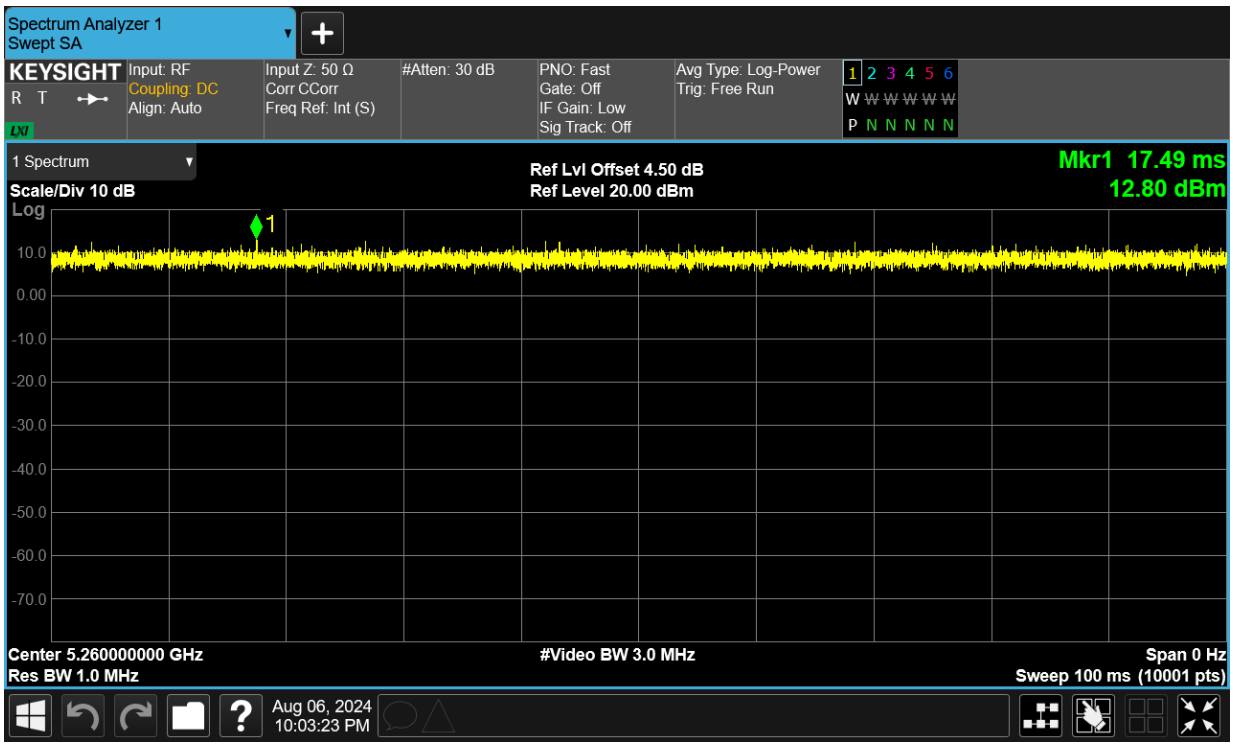
Duty Cycle NVNT ac40 5310MHz Ant1



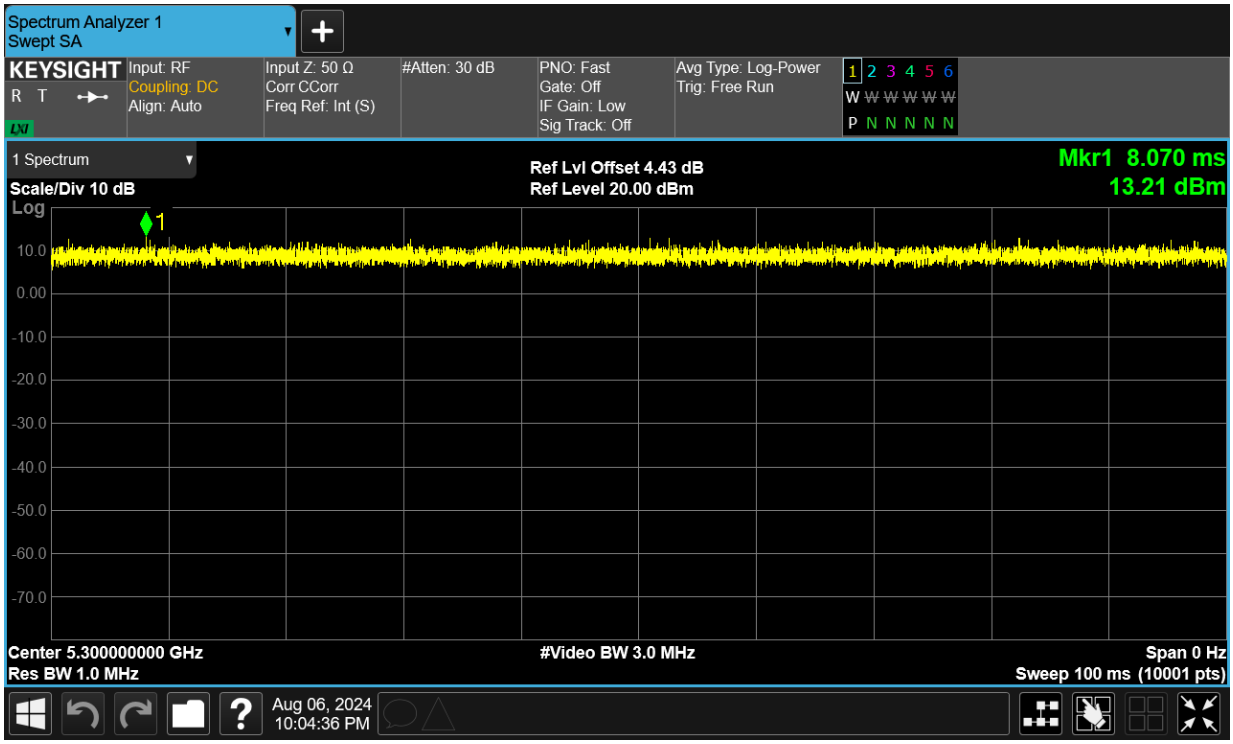
Duty Cycle NVNT ac80 5290MHz Ant1



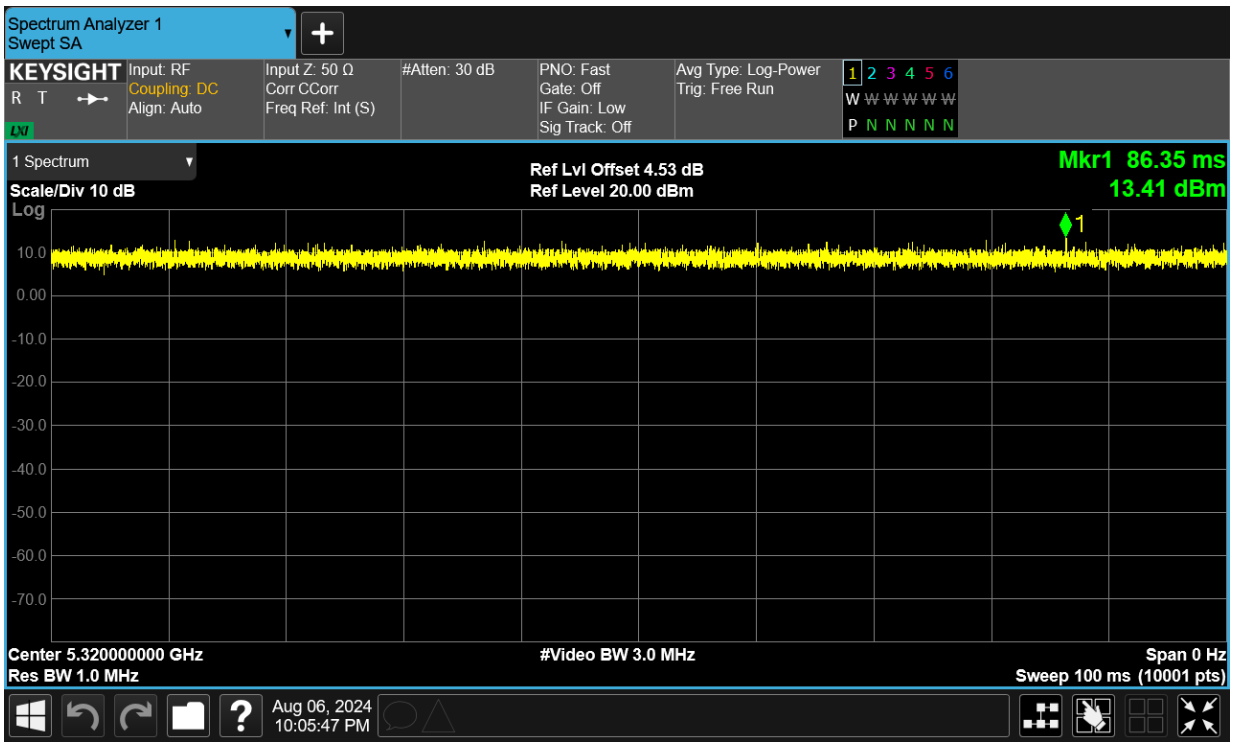
Duty Cycle NVNT n20 5260MHz Ant1



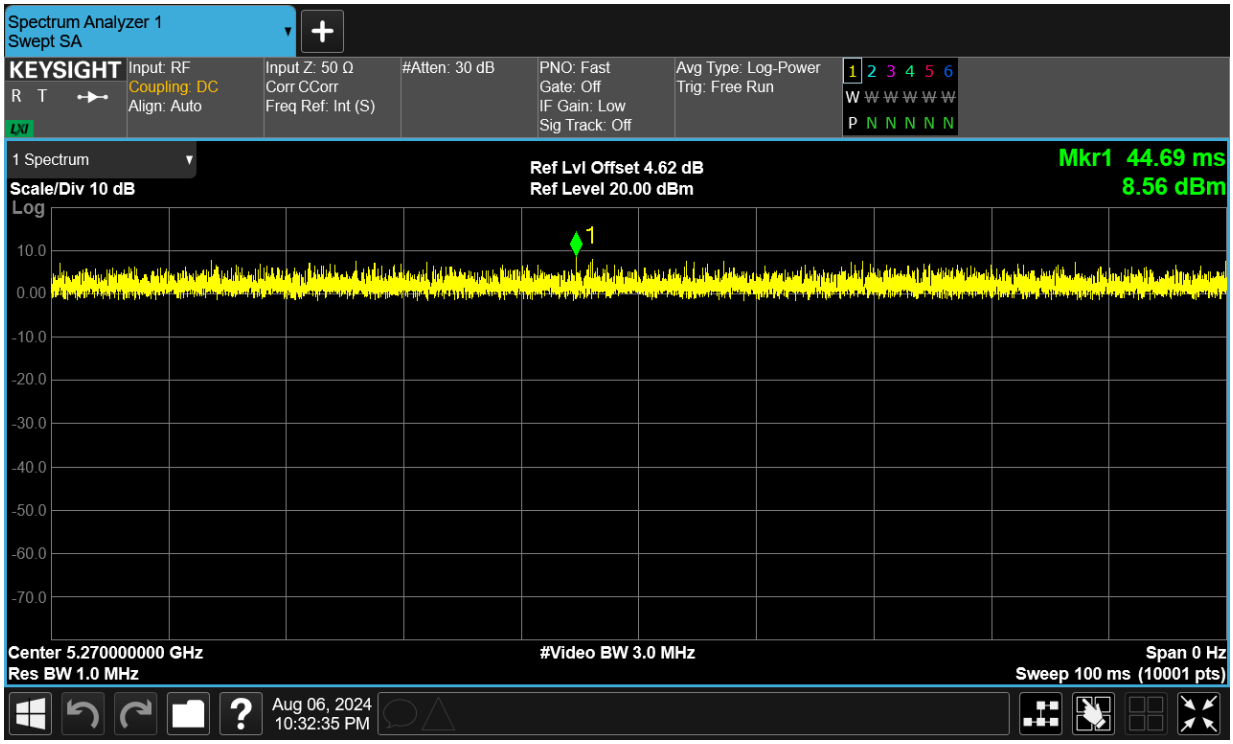
Duty Cycle NVNT n20 5300MHz Ant1



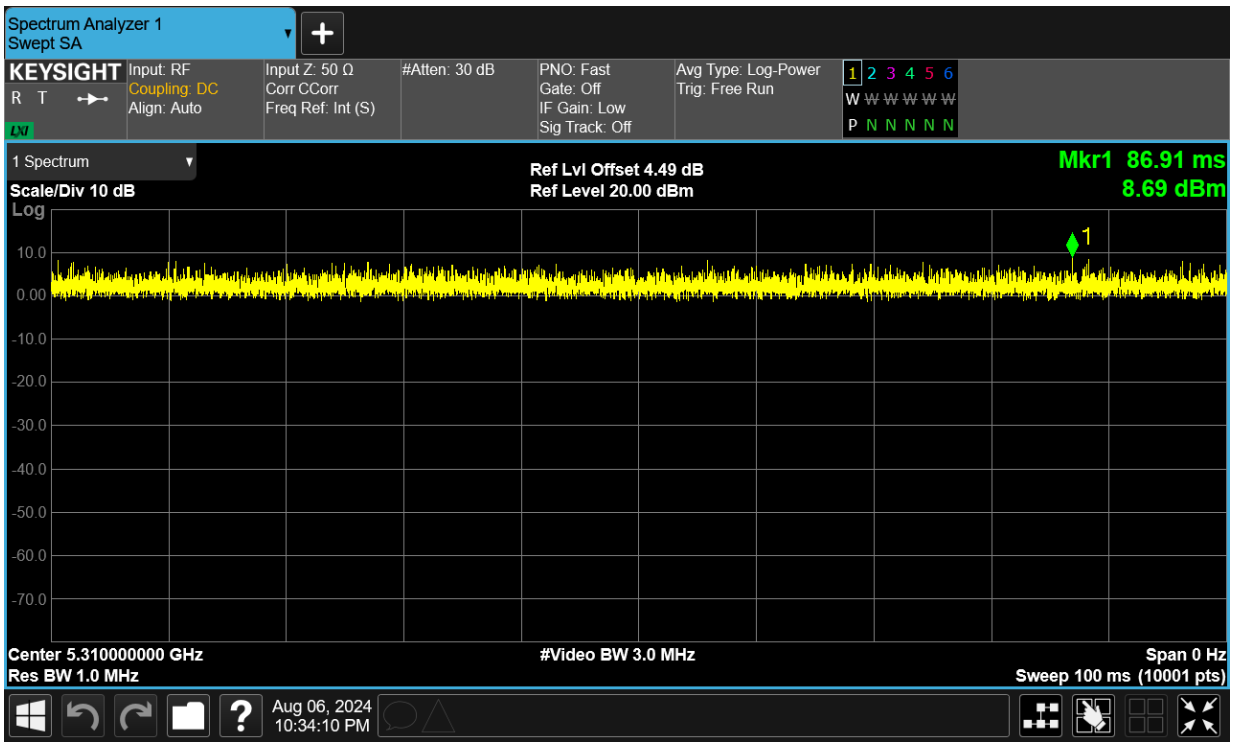
Duty Cycle NVNT n20 5320MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



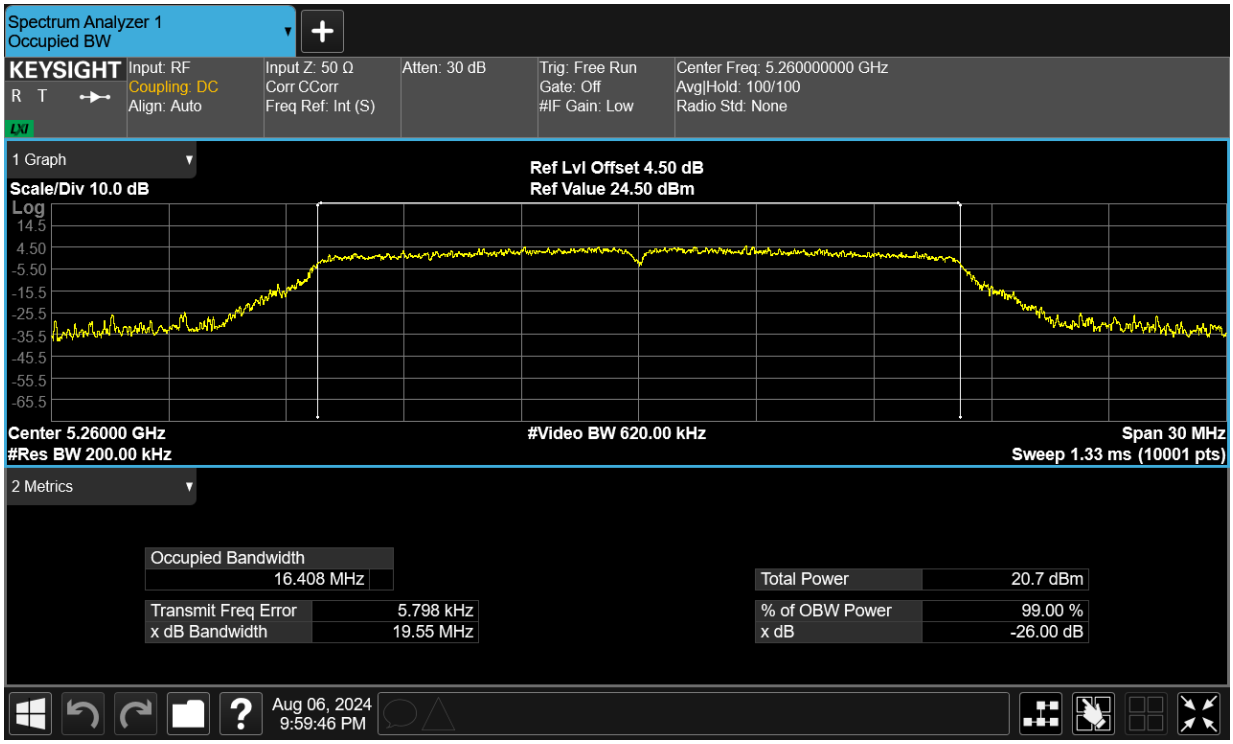
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	15.6	0	15.6	24	Pass
NVNT	a	5300	Ant1	15.3	0	15.3	24	Pass
NVNT	a	5320	Ant1	16.06	0	16.06	24	Pass
NVNT	ac20	5260	Ant1	15.26	0	15.26	24	Pass
NVNT	ac20	5300	Ant1	15.05	0	15.05	24	Pass
NVNT	ac20	5320	Ant1	16.07	0	16.07	24	Pass
NVNT	ac40	5270	Ant1	8.3	0	8.3	24	Pass
NVNT	ac40	5310	Ant1	8.49	0	8.49	24	Pass
NVNT	ac80	5290	Ant1	8.24	0	8.24	24	Pass
NVNT	n20	5260	Ant1	15.51	0	15.51	24	Pass
NVNT	n20	5300	Ant1	15.24	0	15.24	24	Pass
NVNT	n20	5320	Ant1	16.07	0	16.07	24	Pass
NVNT	n40	5270	Ant1	8.3	0	8.3	24	Pass
NVNT	n40	5310	Ant1	8.7	0	8.7	24	Pass

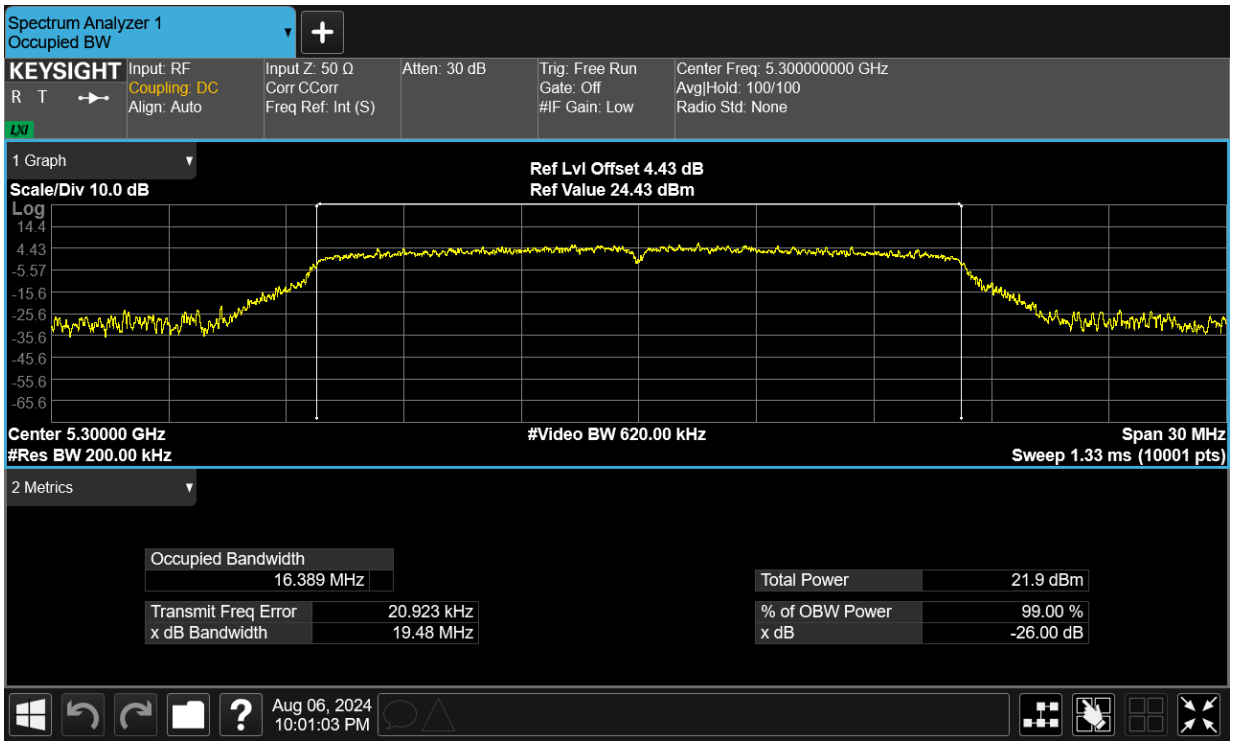
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.408
NVNT	a	5300	Ant1	16.389
NVNT	a	5320	Ant1	16.419
NVNT	ac20	5260	Ant1	17.564
NVNT	ac20	5300	Ant1	17.541
NVNT	ac20	5320	Ant1	17.56
NVNT	ac40	5270	Ant1	35.91
NVNT	ac40	5310	Ant1	35.948
NVNT	ac80	5290	Ant1	75.124
NVNT	n20	5260	Ant1	17.557
NVNT	n20	5300	Ant1	17.549
NVNT	n20	5320	Ant1	17.55
NVNT	n40	5270	Ant1	35.922
NVNT	n40	5310	Ant1	35.923

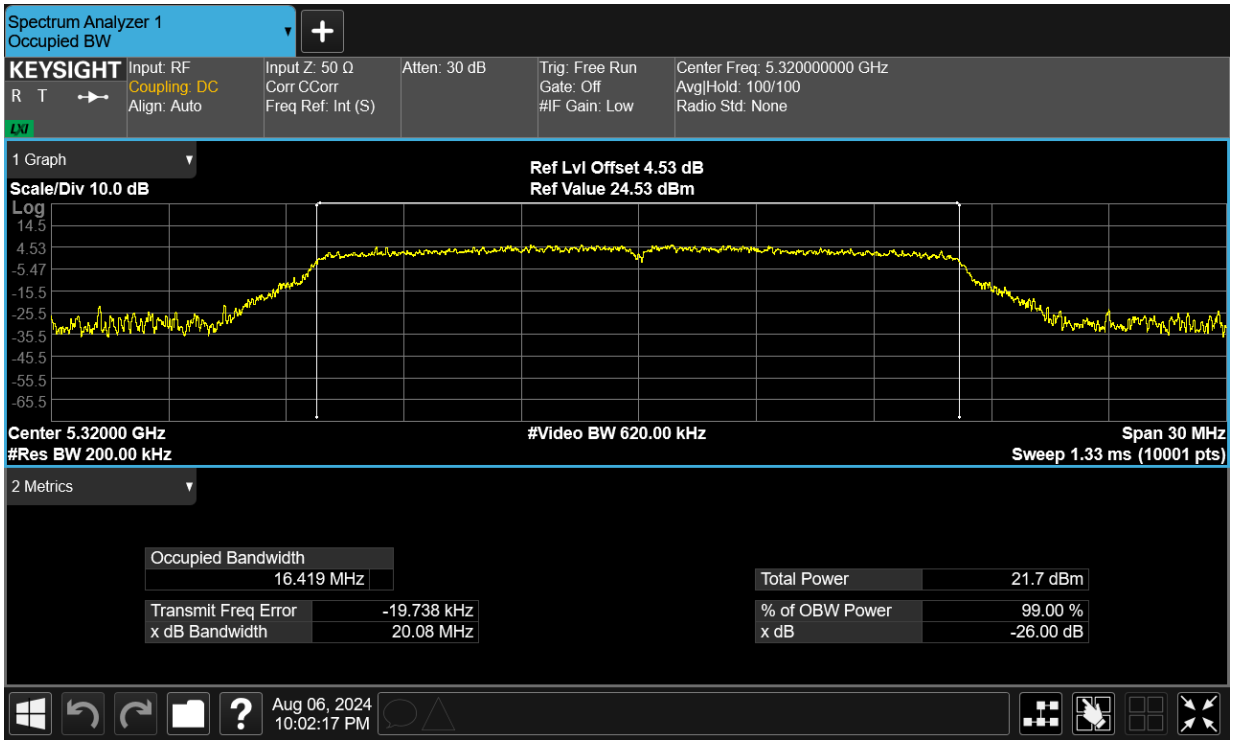
Test Graphs
OBW NVNT a 5260MHz Ant1



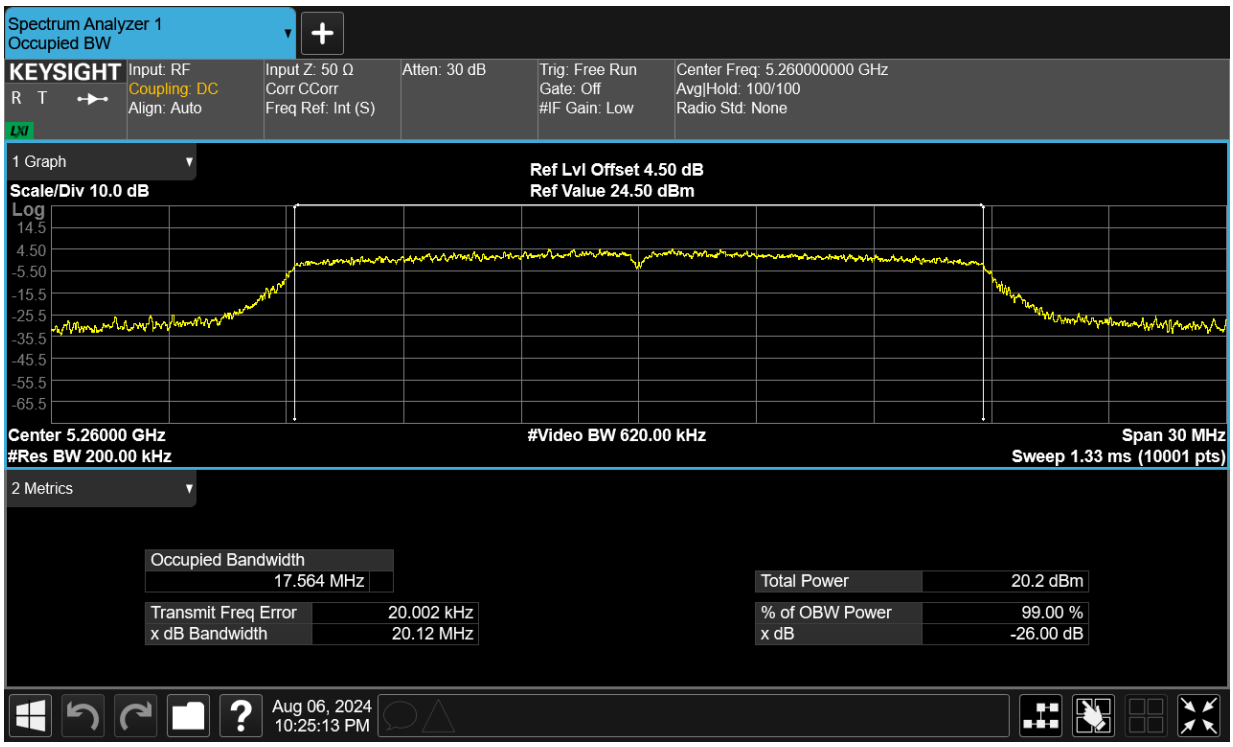
OBW NVNT a 5300MHz Ant1



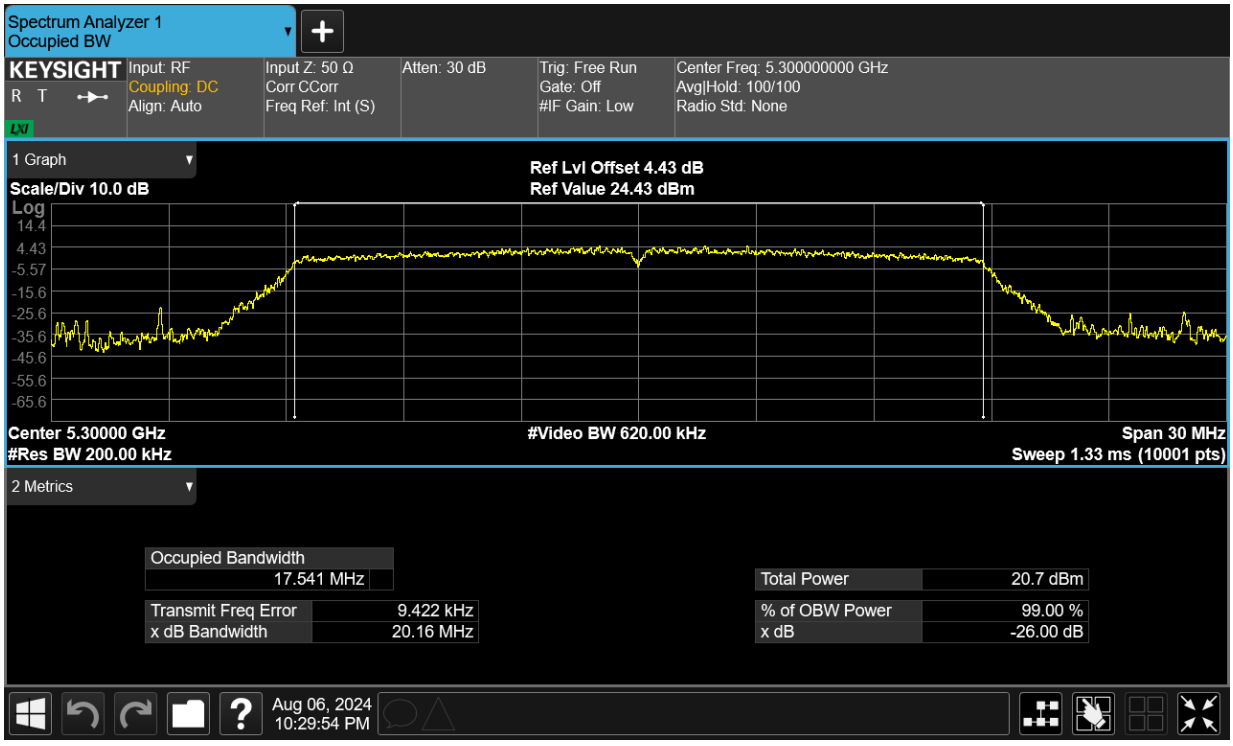
OBW NVNT a 5320MHz Ant1



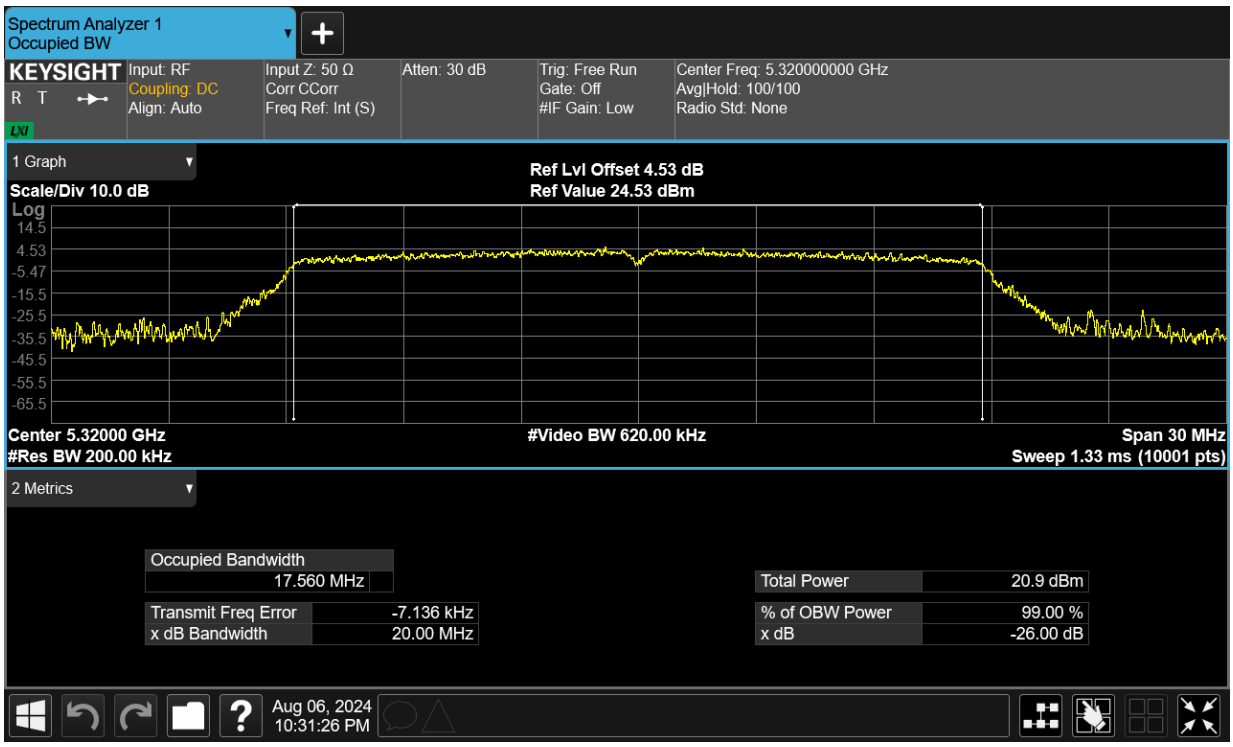
OBW NVNT ac20 5260MHz Ant1



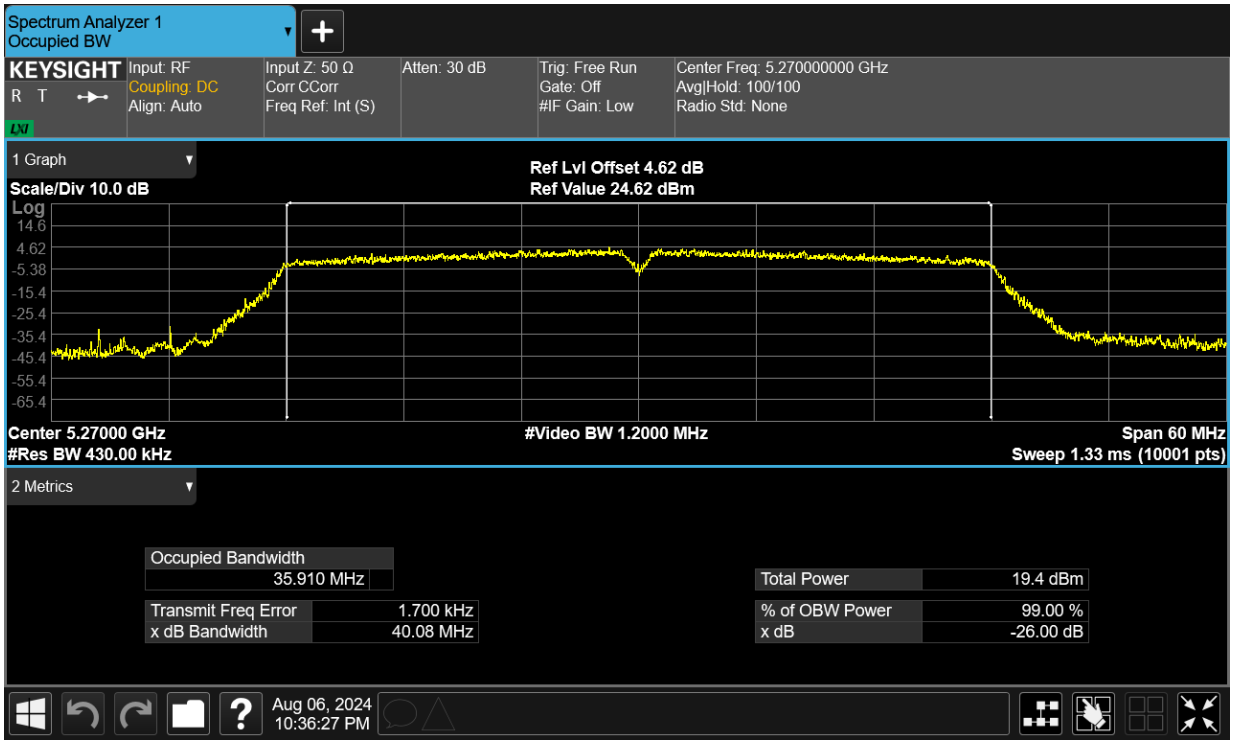
OBW NVNT ac20 5300MHz Ant1



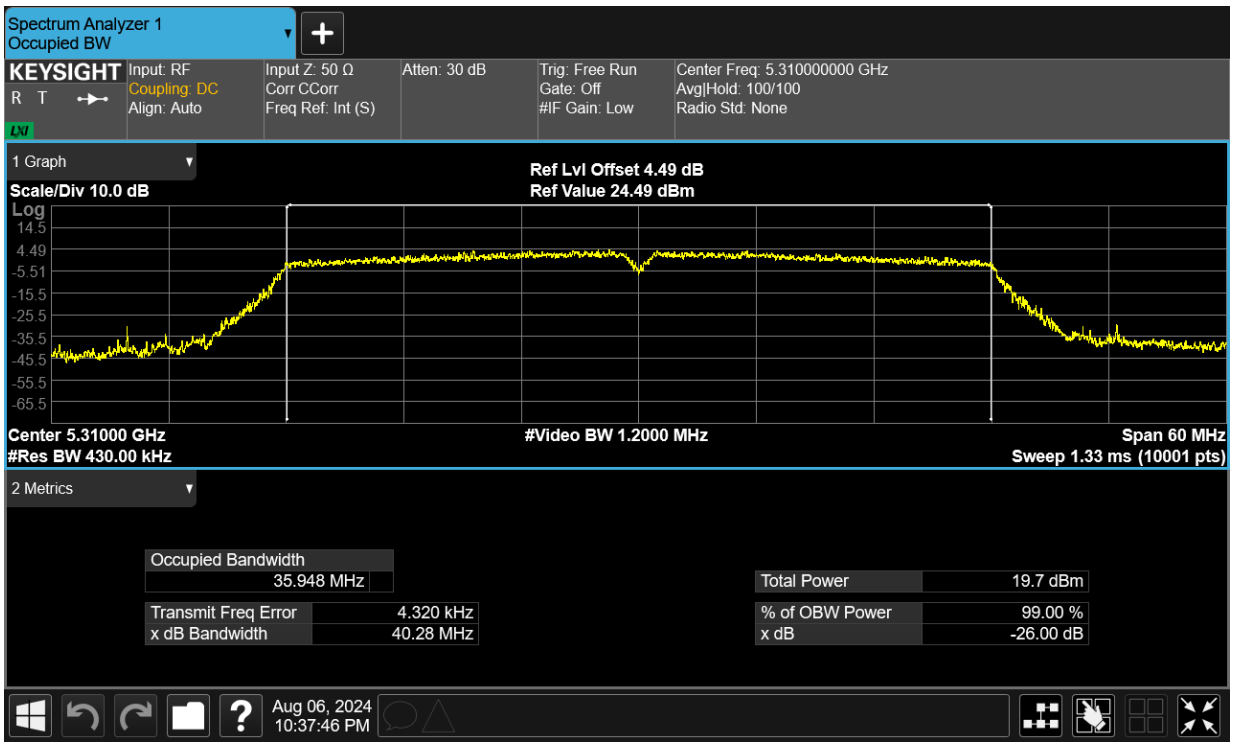
OBW NVNT ac20 5320MHz Ant1



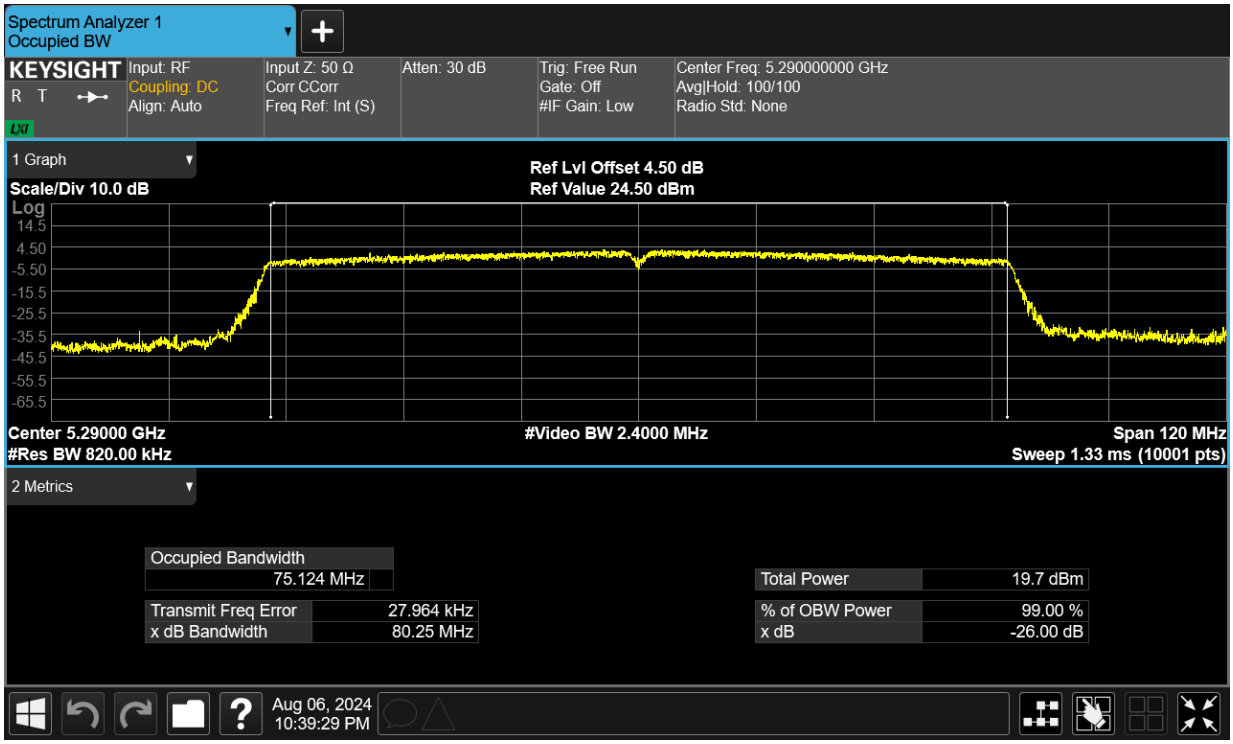
OBW NVNT ac40 5270MHz Ant1



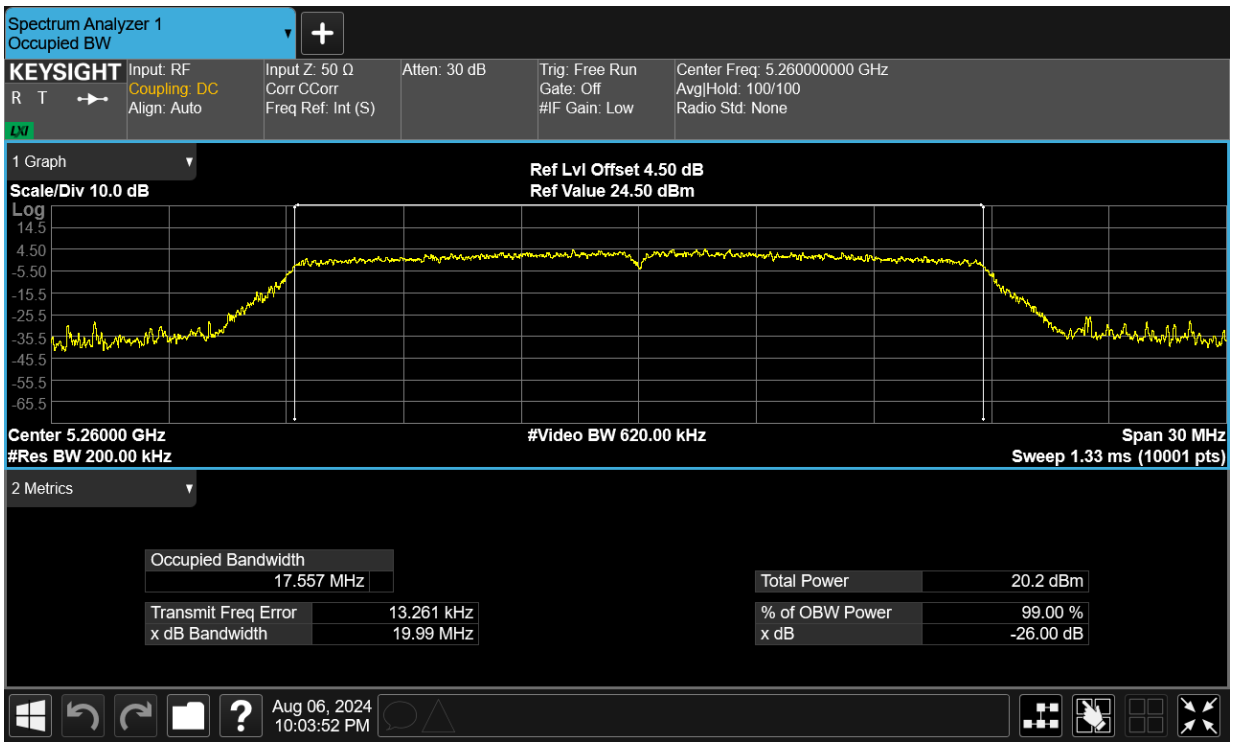
OBW NVNT ac40 5310MHz Ant1



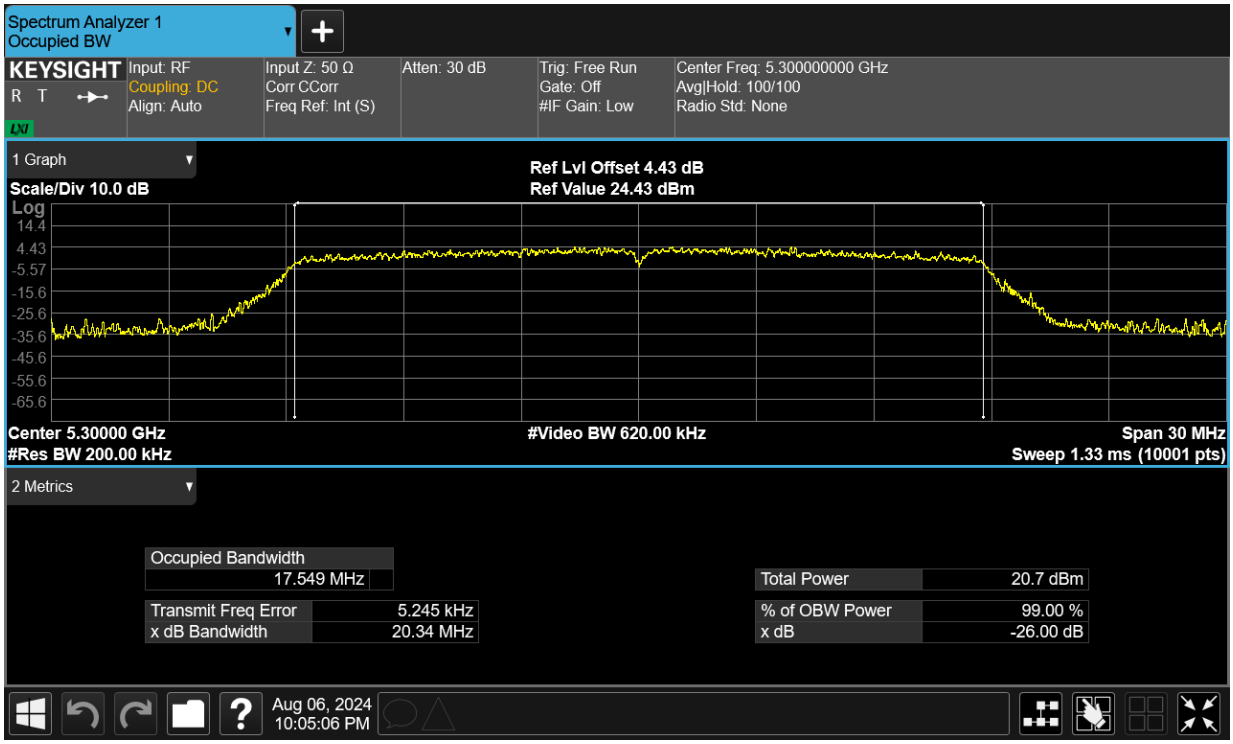
OBW NVNT ac80 5290MHz Ant1



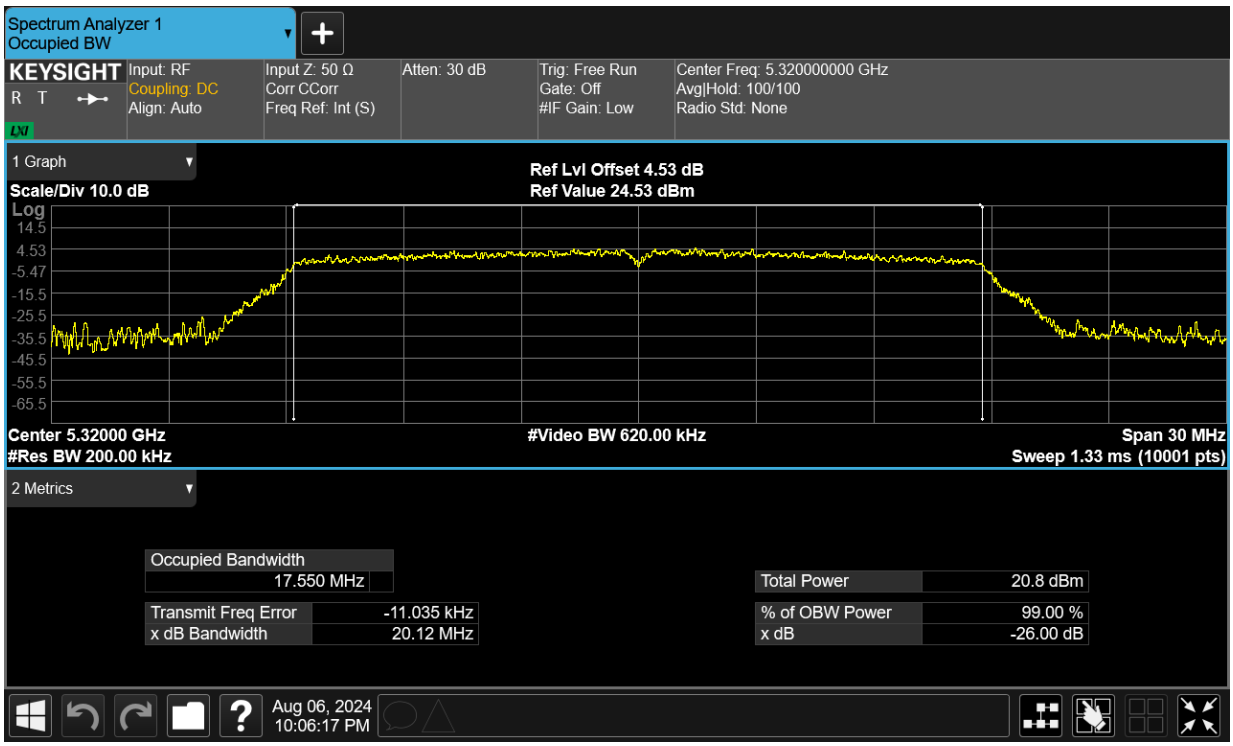
OBW NVNT n20 5260MHz Ant1



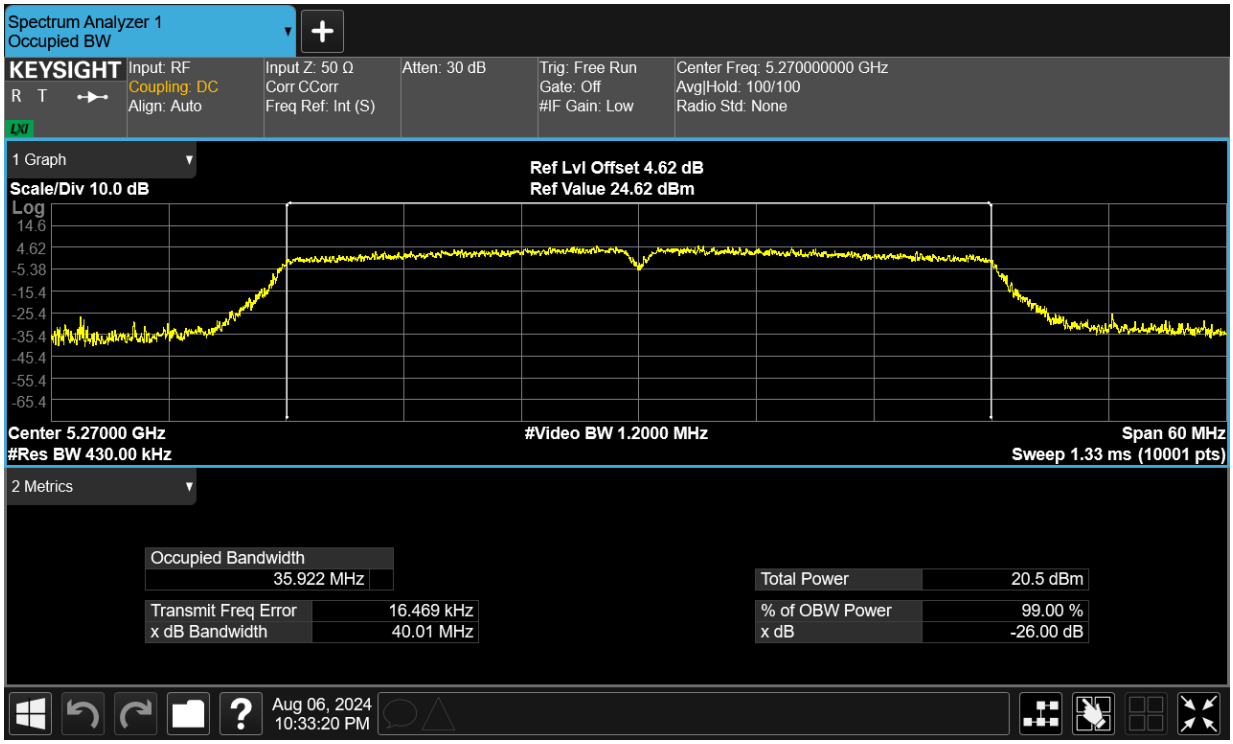
OBW NVNT n20 5300MHz Ant1



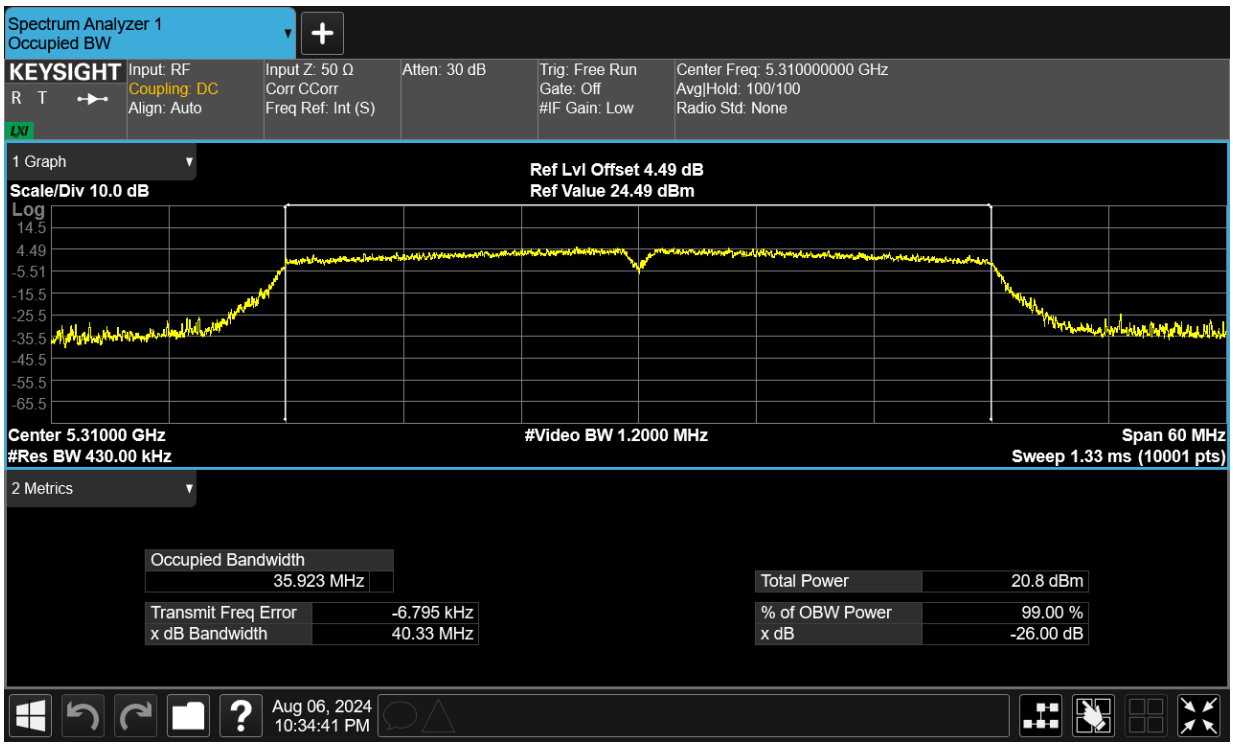
OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1



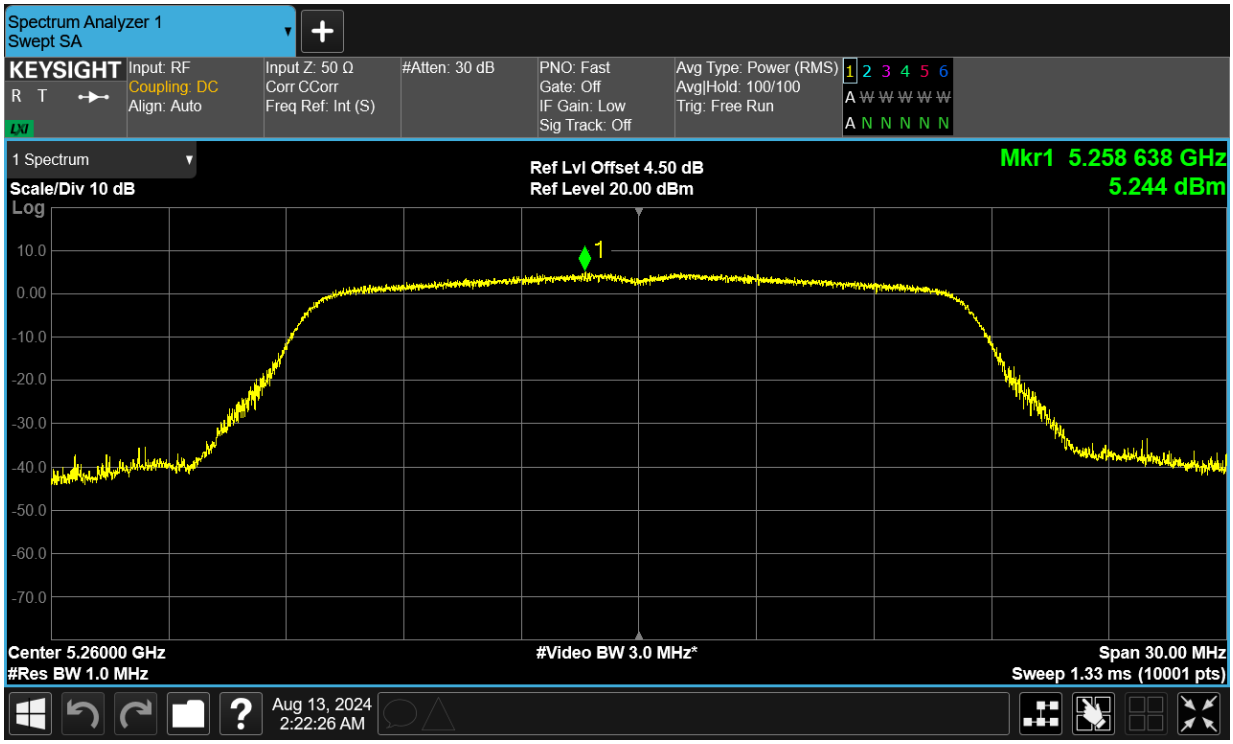
OBW NVNT n40 5310MHz Ant1



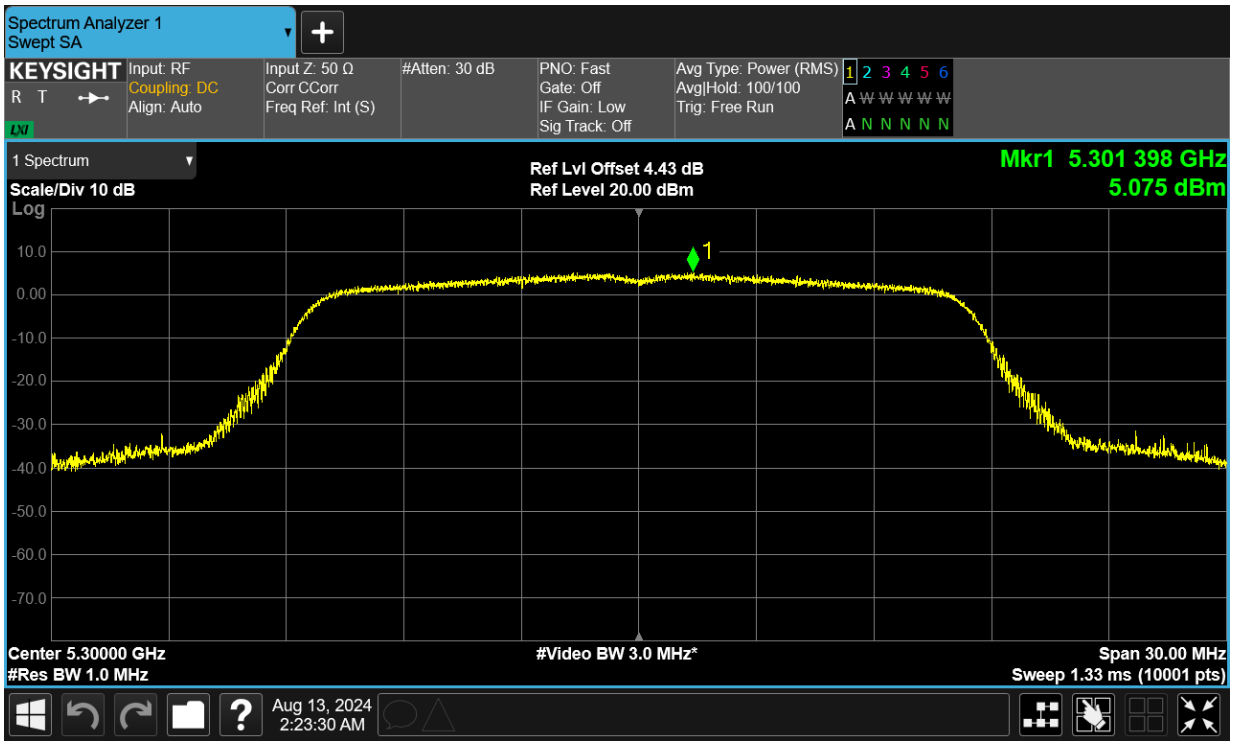
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	5.244	11	Pass
NVNT	a	5300	Ant1	5.075	11	Pass
NVNT	a	5320	Ant1	5.65	11	Pass
NVNT	ac20	5260	Ant1	4.488	11	Pass
NVNT	ac20	5300	Ant1	4.877	11	Pass
NVNT	ac20	5320	Ant1	4.868	11	Pass
NVNT	ac40	5270	Ant1	-4.444	11	Pass
NVNT	ac40	5310	Ant1	-4.625	11	Pass
NVNT	ac80	5290	Ant1	-8.019	11	Pass
NVNT	n20	5260	Ant1	4.992	11	Pass
NVNT	n20	5300	Ant1	5.632	11	Pass
NVNT	n20	5320	Ant1	5.344	11	Pass
NVNT	n40	5270	Ant1	-4.708	11	Pass
NVNT	n40	5310	Ant1	-4.481	11	Pass

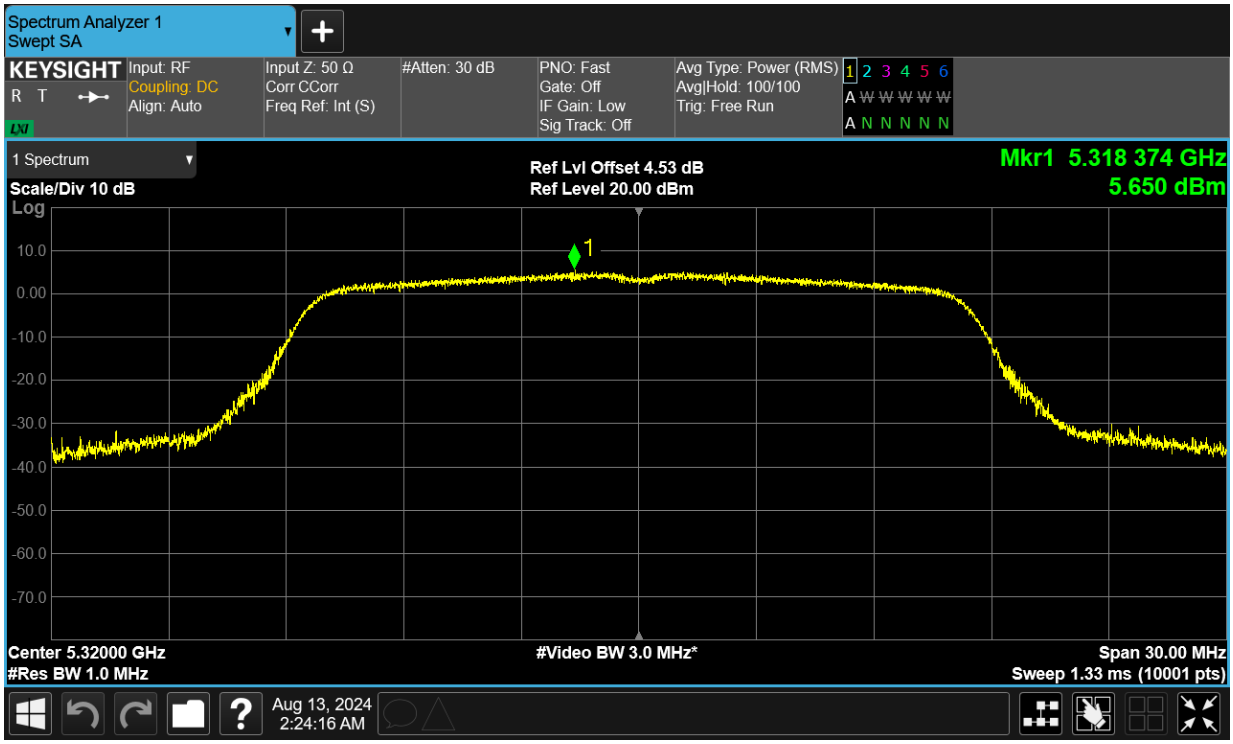
Test Graphs
PSD NVNT a 5260MHz Ant1



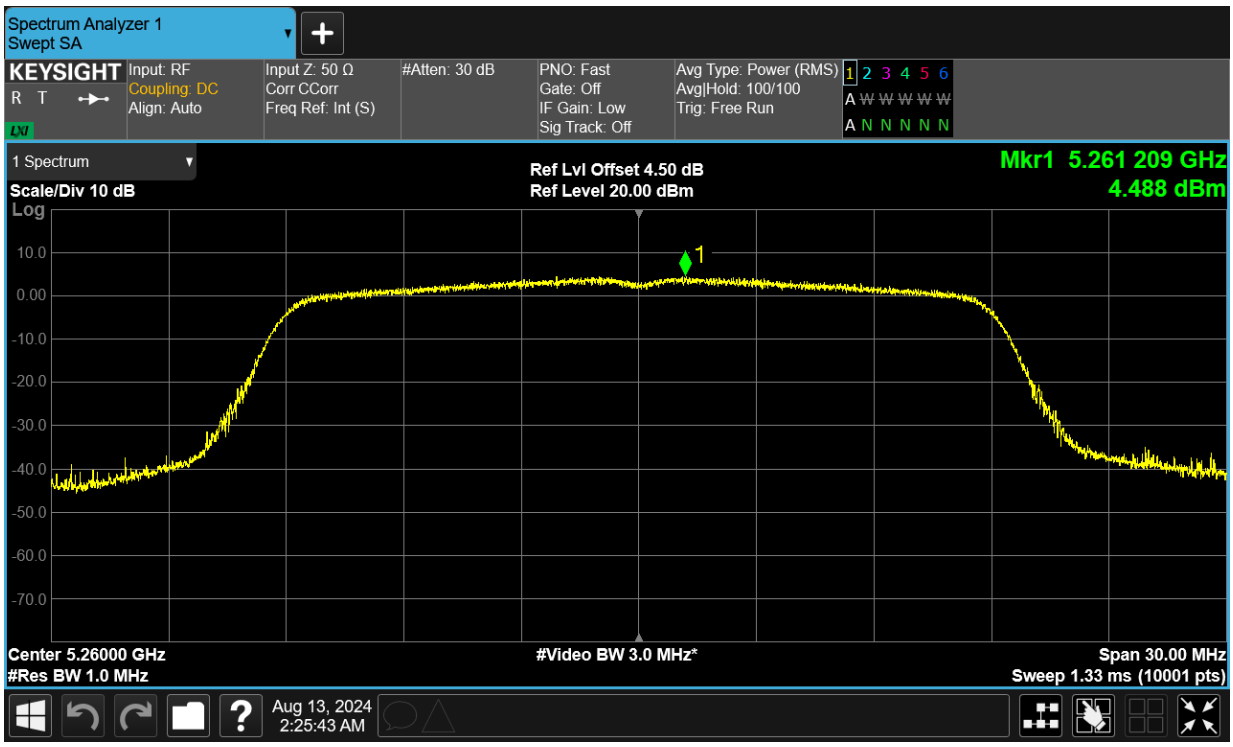
PSD NVNT a 5300MHz Ant1



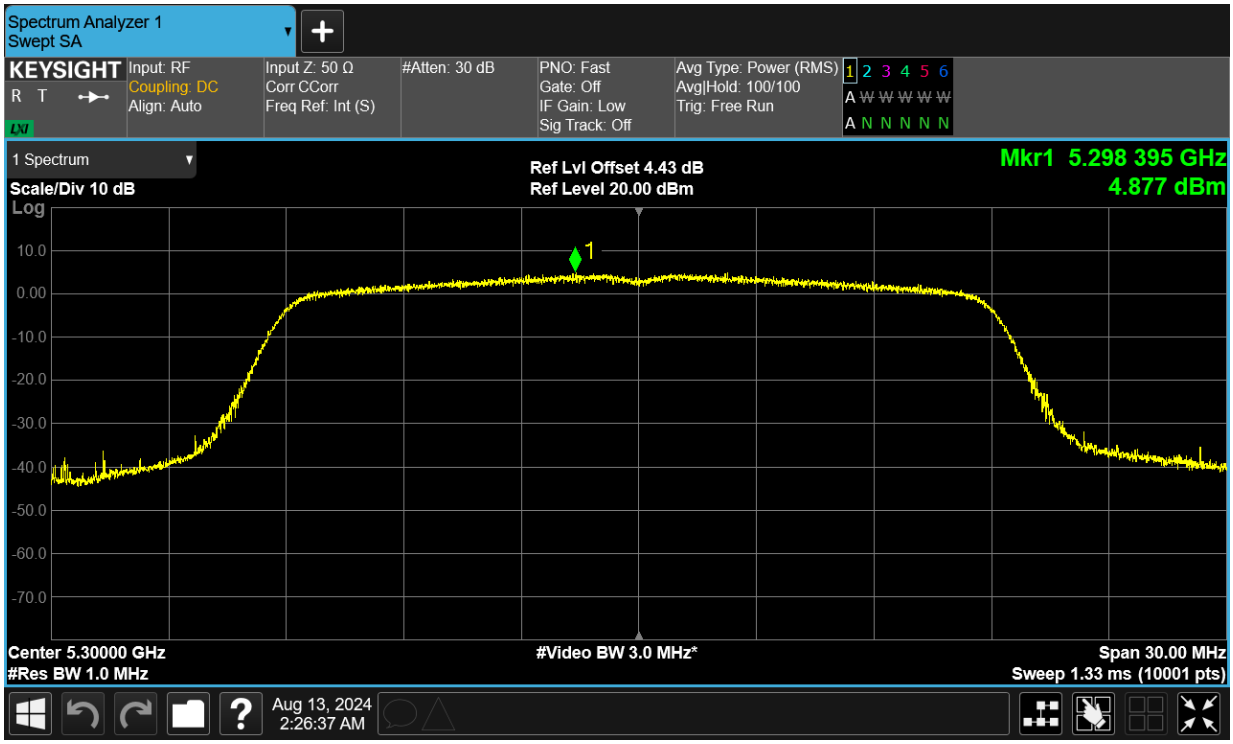
PSD NVNT a 5320MHz Ant1



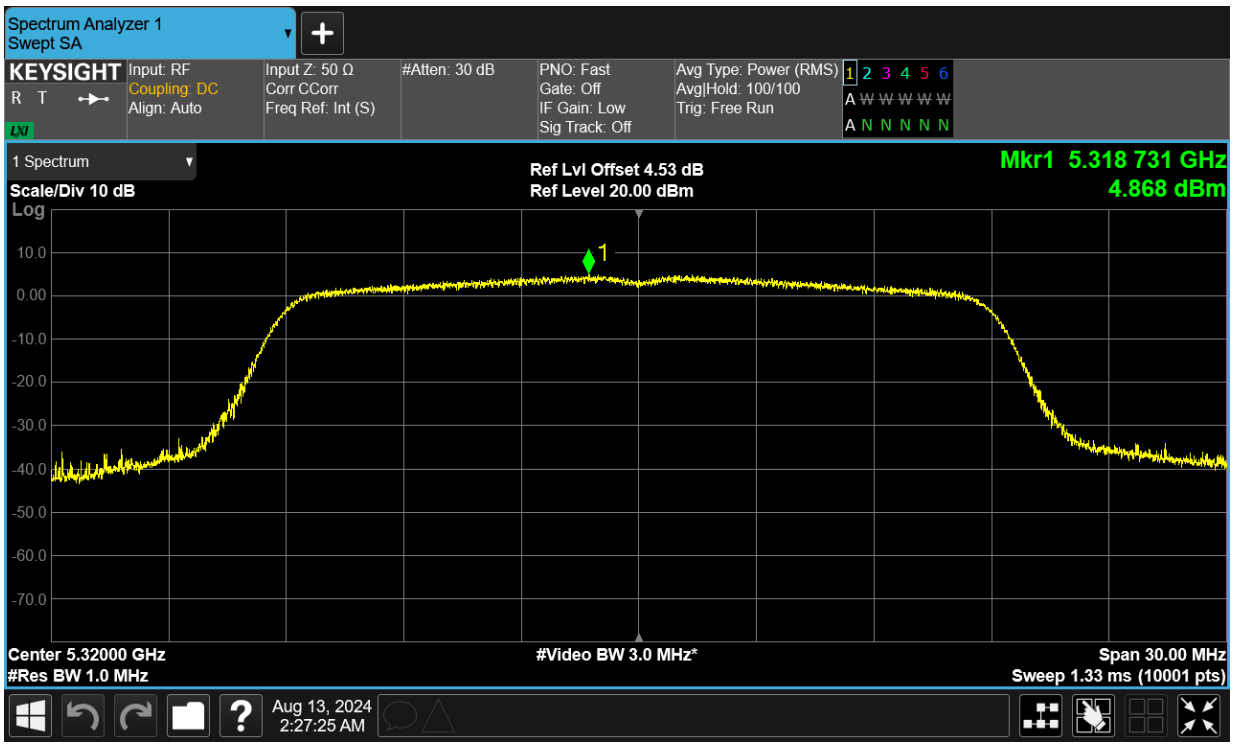
PSD NVNT ac20 5260MHz Ant1



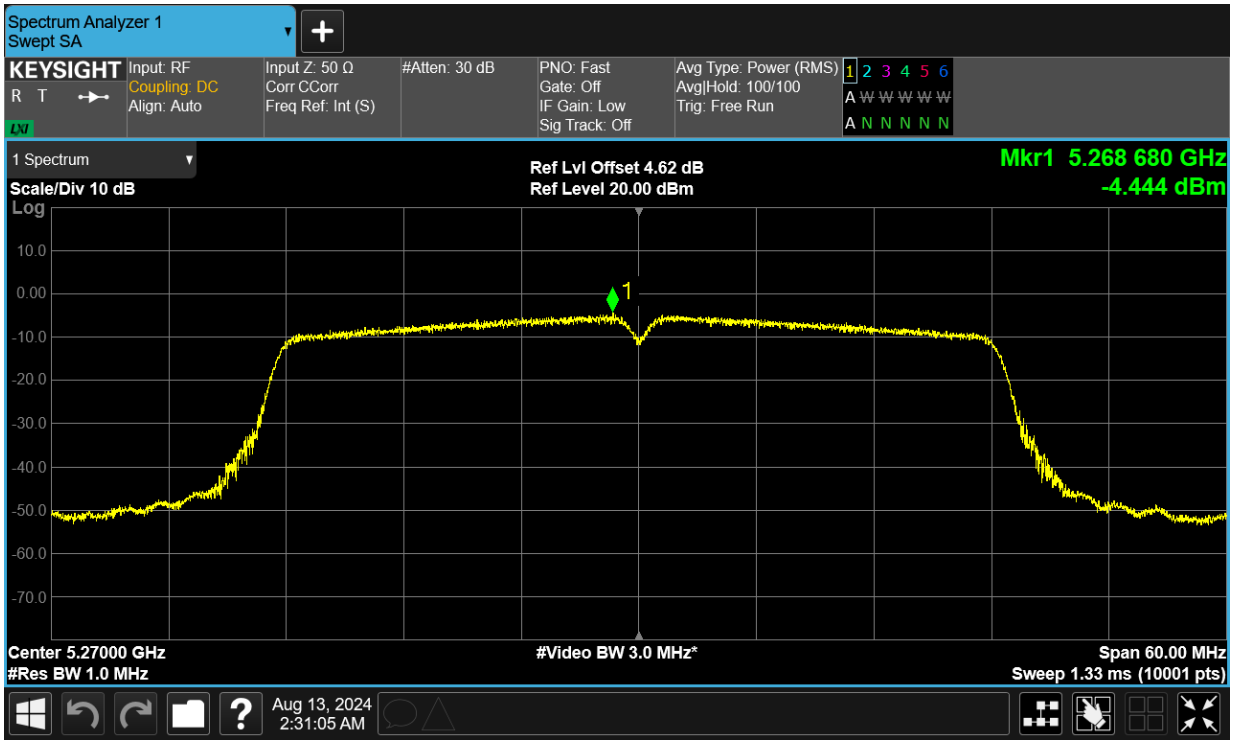
PSD NVNT ac20 5300MHz Ant1



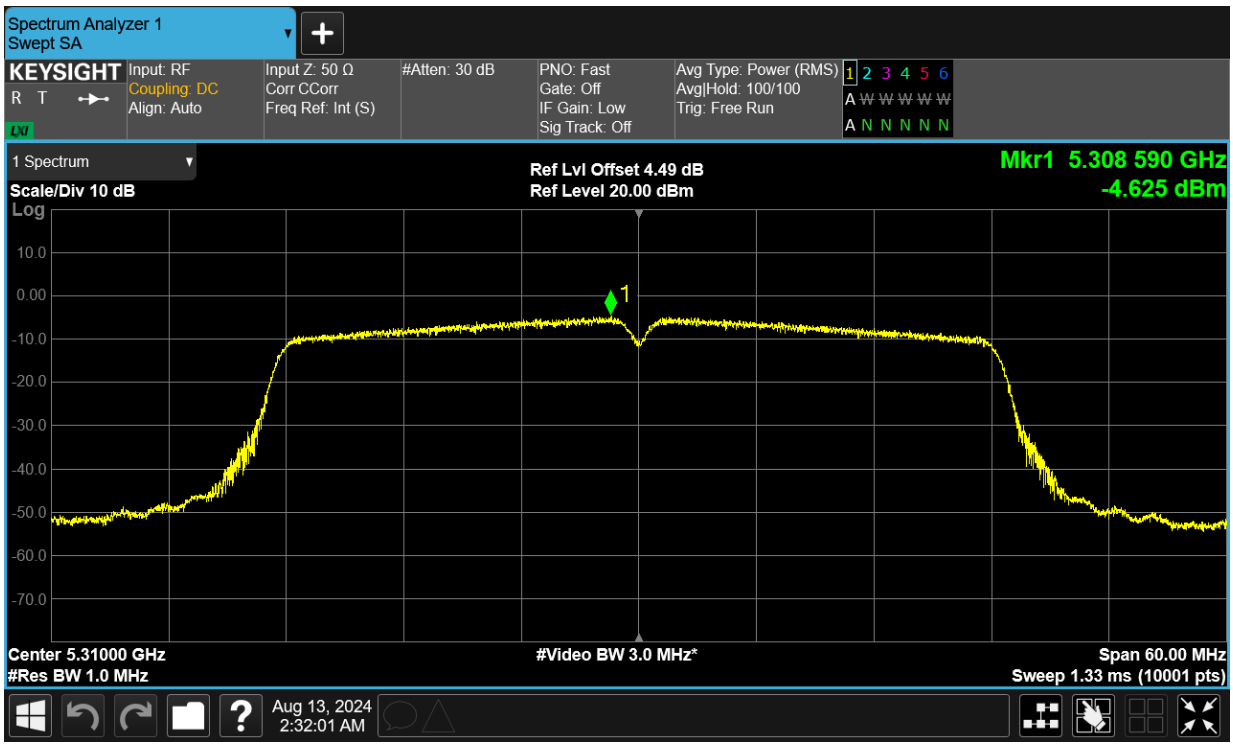
PSD NVNT ac20 5320MHz Ant1



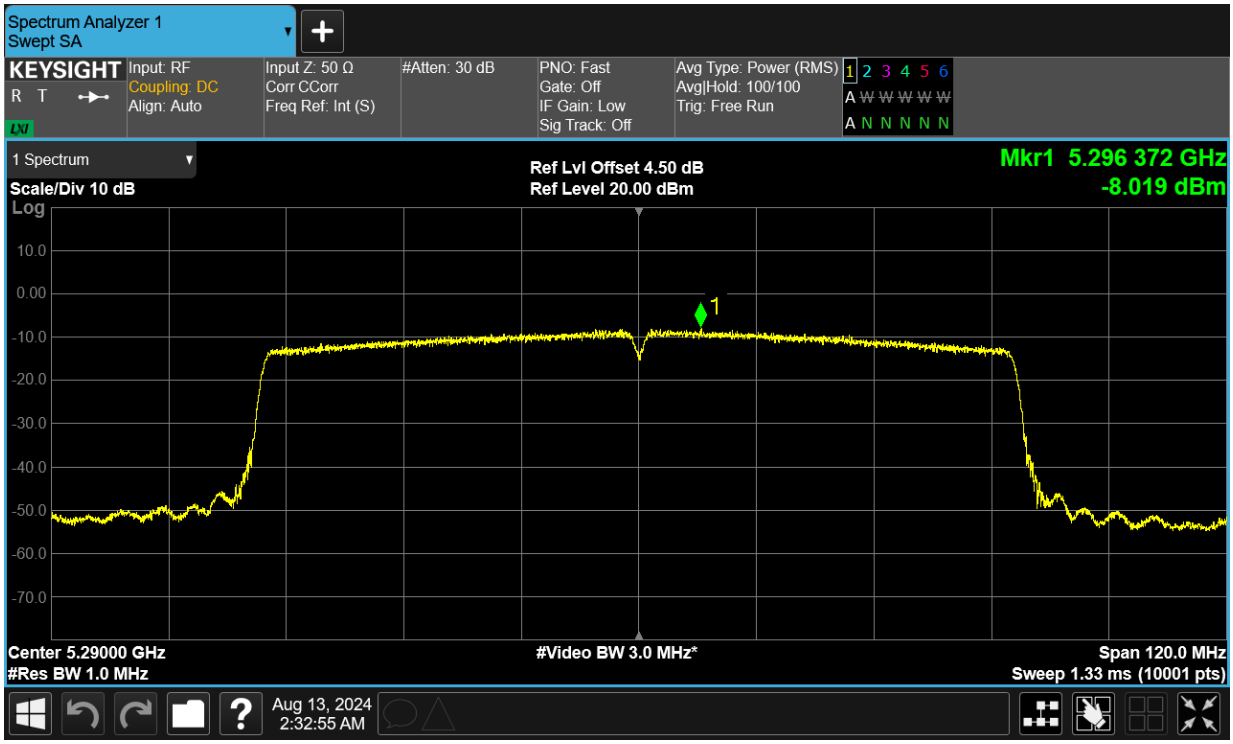
PSD NVNT ac40 5270MHz Ant1



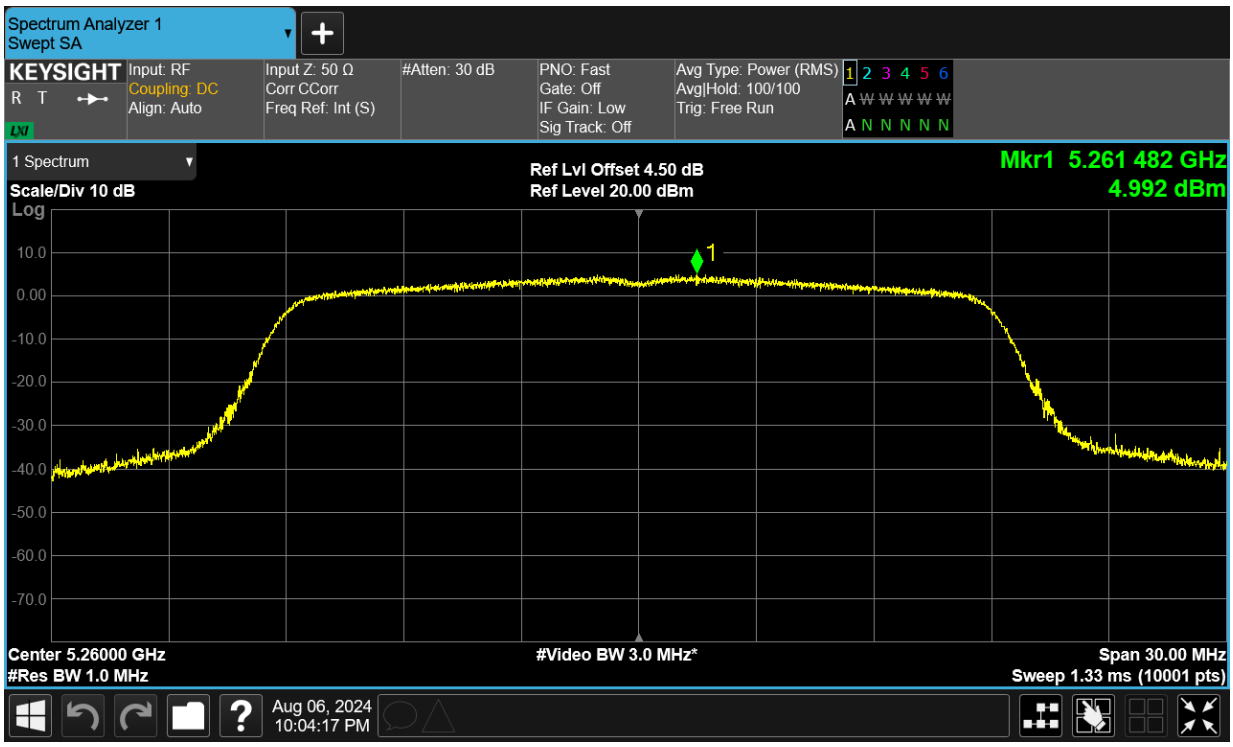
PSD NVNT ac40 5310MHz Ant1



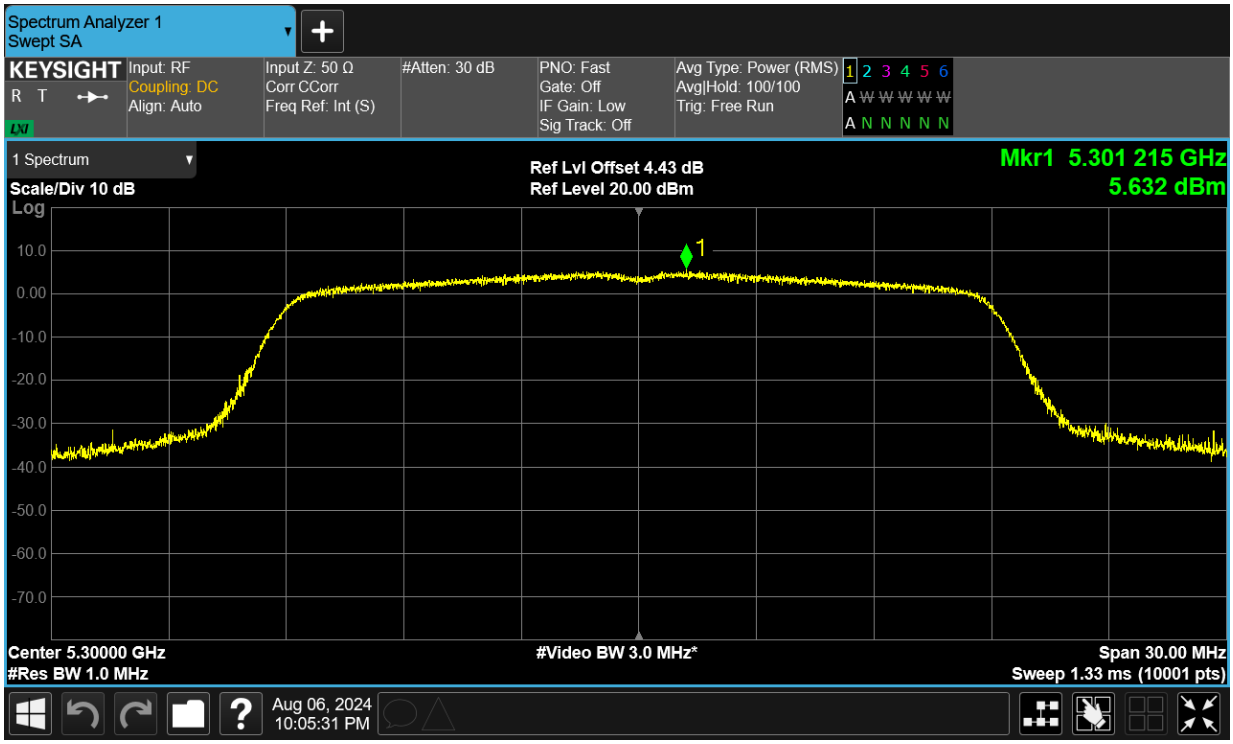
PSD NVNT ac80 5290MHz Ant1



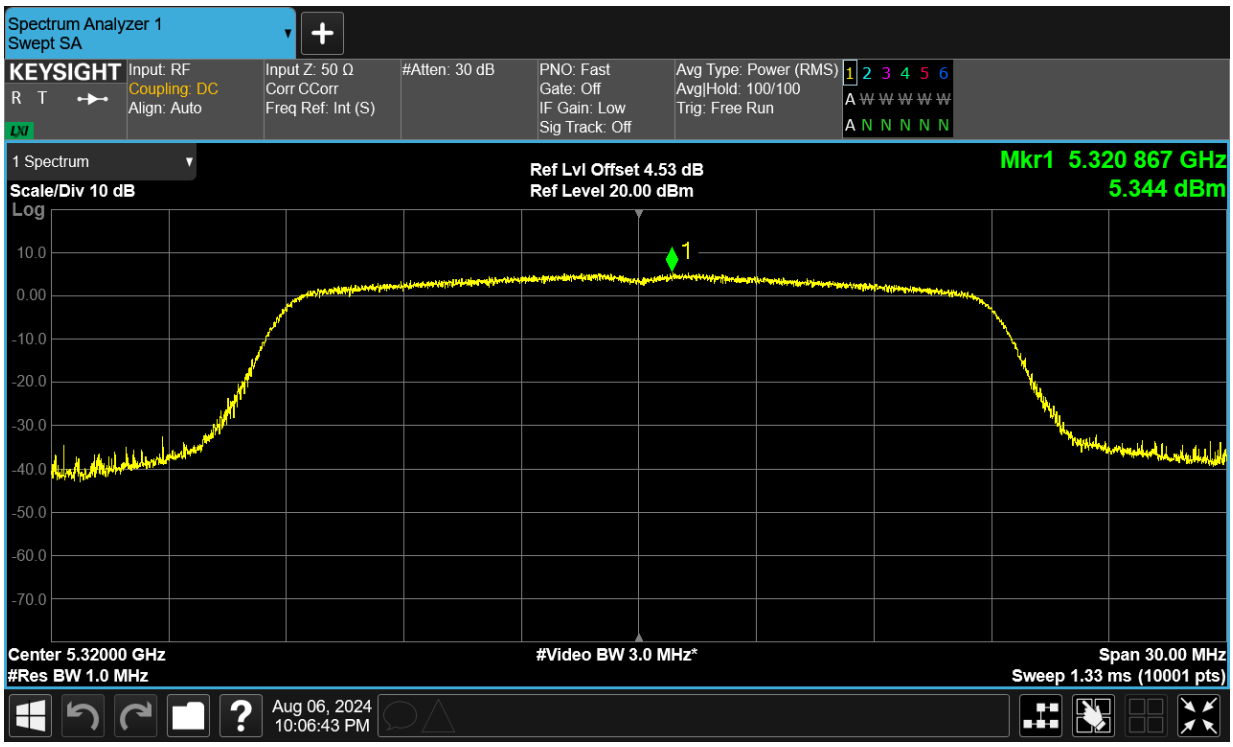
PSD NVNT n20 5260MHz Ant1



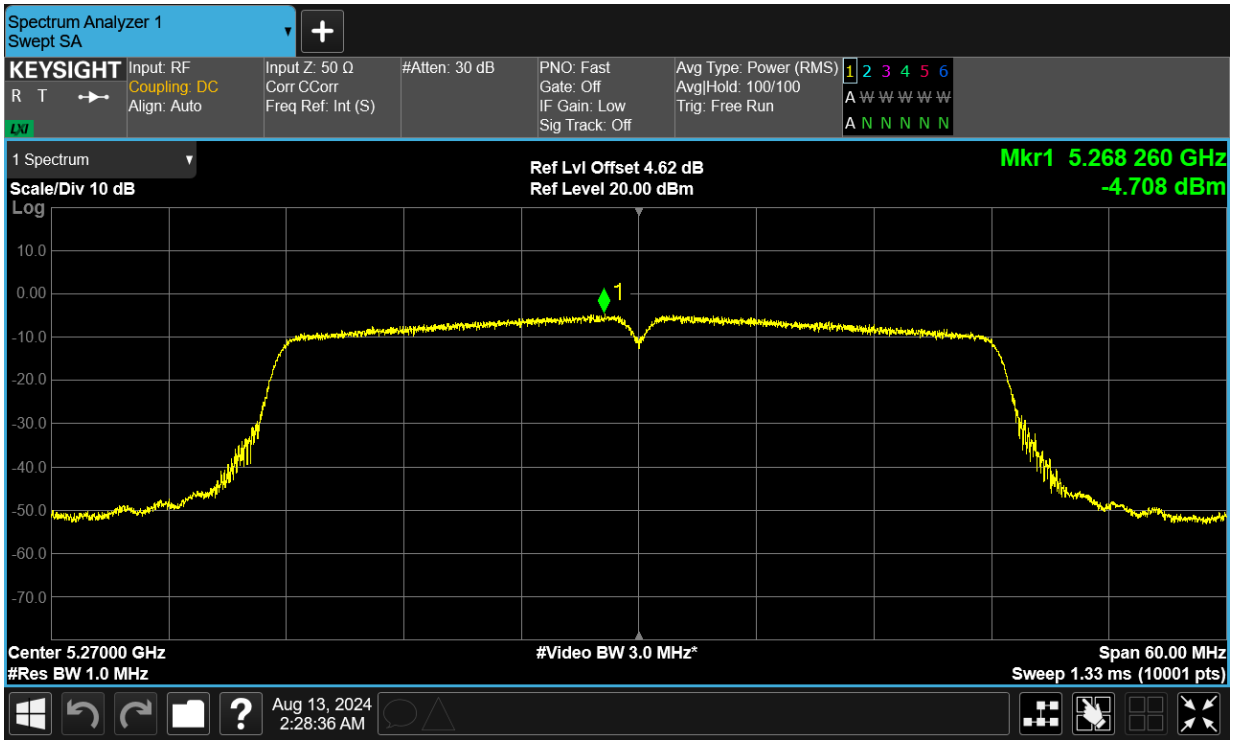
PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1



PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1